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# GRADUATION CEREMONIES

## DECEMBER 2018

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# NATIONAL ANTHEM

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Nkosi sikelel' iAfrika  
Maluphakanyisw' uphondolwayo,  
Yizwa imithandazo yethu,  
Nkosi sikelela, thina lusapho lwayo.

Morena boloka etjhaba sa heso,  
O fedise dintwa la matshwenyeho,  
O se boloke,  
O se boloke setjhaba sa heso,  
Setjhaba sa South Afrika – South Afrika.

Uit die blou van onse hemel,  
Uit die diepte van ons see,  
Oor ons ewige gebergtes,  
Waar die kranse antwoord gee,

Sounds the call to come together,  
And united we shall stand,  
Let us live and strive for freedom,  
In South Africa our land.

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# THE VICE-CHANCELLOR'S ROBINING CEREMONY

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<b>NAMES OF GRADUANDS</b>  An asterisk * denotes that the degree will be awarded in the absence of the candidate.	<b>POSTGRADUATE DIPLOMA IN MANAGEMENT</b>  <i>In Business and Systems Analysis:</i> Landile Lloyd Bengane *Yamkela Kwili Nolukholo Tshwete Lischel Ann Williams  <i>In Information Systems:</i> Patience Noxolo Tolashe	<b>POSTGRADUATE DIPLOMA IN MANAGEMENT PRACTICE</b>  Fundiswa Faith Jozi *Tunu Yusuf Mwaluwinga *Vincent Ikechukwu Okafor
<b>1. FACULTY OF COMMERCE</b>  <i>Dean: Associate Professor L Ronnie</i>		<b>POSTGRADUATE DIPLOMA IN PUBLIC SECTOR ACCOUNTING</b>  Loyiso Lawrence Faniso Yonique Morta Dudley Tanaka Mutero *Proscovia Achan Tombe
<b>ADVANCED DIPLOMA IN BUSINESS PROJECT MANAGEMENT</b>  Lindelani Samuel Bubuluma *Ivan Christopher Coetzee *Hannes Johannes Petrus De Villiers *William Anthony Jansen Van Rensburg Engelhardine Ngurimuje Kavezuva Idris Kisenga Mousongo Kayembe *Pedzisai Desmond Mhlanga *Ravani Moodley Nontuthuzelo Grace Mrwetyana *Ndivhuho Nefale Kwezi Ngcukana *Sello Clyde Nzama Gershwen Pienaar Sammy Thatayaone Radipitse *Gloria Masilayo Rembe-Hadebe *Daniel Fendick Van Aswegen	<b>POSTGRADUATE DIPLOMA IN MANAGEMENT IN BUSINESS COMMUNICATION</b>  *Palesa Angela Kekana  <b>POSTGRADUATE DIPLOMA IN MANAGEMENT IN ENTREPRENEURSHIP</b>  *Akhona Siyabonga Simelane  <b>POSTGRADUATE DIPLOMA IN MANAGEMENT IN MARKETING</b>  Mpho Lydia Chuma Billie-Jean Demas Tracy-Lee George Kayakazi Jabulile Mabude Timothy Maistry-Foster Theonordoffis Ncube Zikhona Tshwaku	<b>DEGREE OF BACHELOR OF COMMERCE</b>  Michael Akuzwe Bakanyize *Siyabonga Mthembu Rumbidzai Roselli Munowenyu *Gcina Siphesihle Ntsonga *Ahren Joshua Posthumus *Matthew Derek Scott  <b>DEGREE OF BACHELOR OF BUSINESS SCIENCE</b>  <i>In Management Studies:</i> *Matthew Nicolas Stanley
<b>POSTGRADUATE DIPLOMA IN ACCOUNTING</b>  *Jarren Alon Collet *Lindani Khuluse Karnisia Anesu Rusike *Janine Dudley Rutsch Nicole Tarryn Van Rooyen	<b>POSTGRADUATE DIPLOMA IN MANAGEMENT IN SPORT MANAGEMENT</b>  Tapiwa Brandon Musara *Kganya Ngcebo Zungu	<b>DEGREE OF BACHELOR OF COMMERCE HONOURS</b>  <i>In Economics:</i> *Katlego Ramahuta Siphesihle Sabelo Zwane (In the first class)  <i>In Financial Analysis and Portfolio Management:</i> Tinotenda Barbara Chikumbu Thabang Makgate Estenia Pheladi Matentji

\*Zimele Avumile Mbanjwa  
\*Sinenhlanhla Mdluli  
Khumoetsile Keweditse Mokone  
\*Zine Nonhlakanipho Nzama

*In Information Systems:*

Sodick Jacobs  
Valerie Mujinga Tshiani

*In Tax Technical and Compliance:*

Nichollette Carol Brown  
Ongezwa Zamafaku Dikiso  
Sibabalwe Siphelele Dimaza  
Madiga Peter Langa  
Thandiwe Jacqueline Lesoetsa  
Nozipho Princess Mpanza  
Inaminkosi Ncapayi  
Naledi Ntondini  
Vincent Paul Pillai

DEGREE OF MASTER OF BUSINESS  
ADMINISTRATION

\*Ntsikakazi Hene  
\*Cedric Thamsanqa Mzolo  
\*Lauren Meryl Wyndham Quin

*In the Executive Programme:*

Mpho Meriam Ngoepe

DEGREE OF MASTER  
OF PHILOSOPHY

*In Programme Evaluation:*

\*Themba Moeketsi

DEGREE OF MASTER  
OF COMMERCE

*In Development Finance:*

Louis Kaikuraere Mungendje

*In Information Systems:*

Helen Phooko

**2. FACULTY OF ENGINEERING  
AND THE BUILT ENVIRONMENT**

*Dean: Professor A Lewis*

POSTGRADUATE DIPLOMA IN  
PROJECT MANAGEMENT

Khanyisa Prudence Mabunda

DEGREE OF BACHELOR OF  
ARCHITECTURAL STUDIES

Deva Azure Boerstra Argue  
Dane Brandon September

DEGREE OF BACHELOR OF  
SCIENCE IN CONSTRUCTION  
STUDIES

\*Fritz Junior Nketia

DEGREE OF BACHELOR OF  
SCIENCE IN ENGINEERING  
IN CIVIL ENGINEERING

\*Maryam Amouhadi

DEGREE OF BACHELOR OF  
SCIENCE IN ENGINEERING IN  
MECHANICAL ENGINEERING

Tafadzwa Chakanyuka

DEGREE OF BACHELOR  
OF SCIENCE IN ENGINEERING  
IN MECHATRONICS

\*Sean Michael Wood (with honours)

DEGREE OF BACHELOR OF  
SCIENCE HONOURS IN  
PROPERTY STUDIES

Bukelwa Ngqanekana  
\*Garrick Courtney Sutton

DEGREE OF BACHELOR OF  
SCIENCE HONOURS IN MATERIALS  
SCIENCE

\*Natalie Chido Kawondera  
\*Muzi Mavundla

DEGREE OF MASTER OF  
ARCHITECTURE (PROFESSIONAL)

\*Simone Brand

DEGREE OF MASTER OF CITY  
PLANNING AND URBAN DESIGN

\*Willem Hendrik Bezuidenhout

DEGREE OF MASTER  
OF ENGINEERING

*In Civil Infrastructure*

*Management & Maintenance:*  
Motlatsi Simon Mothetho

DEGREE OF MASTER OF  
PHILOSOPHY

*In Energy Development Studies:*

\*Samson Mbewe

**3. FACULTY OF  
HEALTH SCIENCES**

*Interim Dean: Professor C Williamson*

POSTGRADUATE DIPLOMA  
IN DISABILITY STUDIES

Gadija Majal

POSTGRADUATE DIPLOMA IN  
HEALTHCARE TECHNOLOGY  
MANAGEMENT

\*Victor Goodson Likana Makwinja  
Michael Mntungwana  
\*Phumzile Hlinzile Mshengu  
\*Wendy Nomachule Sigcau

POSTGRADUATE DIPLOMA IN HEALTH ECONOMICS	HIGHER CERTIFICATE IN EDUCATION IN ADULT EDUCATION	DEGREE OF BACHELOR OF EDUCATION HONOURS
Sankelisiwe Jeanette Mzinyane (with distinction)	Tinashe Trust Njanji	Babalwa Anastatia Buba *Mabuse Isaac Kau *Sithembiso Mcetywa Afikile Mzinzi
POSTGRADUATE DIPLOMA IN TB-HIV MANAGEMENT	ADVANCED CERTIFICATE IN SENIOR PHASE TEACHING	
Siphamandla Sebastian Mfaku Kuvhanganani Olga Mudau	*Yvonne Appolis *Shireen Banu Khan	<b>5. FACULTY OF LAW</b>
DEGREE OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY	POSTGRADUATE CERTIFICATE IN INTERMEDIATE PHASE TEACHING	<i>Acting Dean: Professor H Corder</i>
Tulisa Viwe Kopele Rorisang Skhosana	Nwabisa Funiselo	DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW
DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS	POSTGRADUATE CERTIFICATE IN SENIOR PHASE AND FET TEACHING	Doreen Mwendwa Kiogora Felicity Ndou
<i>In Clinical Pharmacology:</i> *Duane Jeffrey Knowles	Zimasa Zelda Dyani Mncedi Sigodi	DEGREE OF MASTER OF LAWS IN SHIPPING LAW
DEGREE OF MASTER OF PHILOSOPHY	DEGREE OF BACHELOR OF SOCIAL SCIENCE	Akhona Baninzi
<i>In Paediatric Neurology:</i> *Roland Chidi Ibekwe	Tshegofatso Richard Mabusela	<b>6. FACULTY OF SCIENCE</b>
<b>4. FACULTY OF HUMANITIES</b>	DEGREE OF BACHELOR OF MUSIC IN DANCE	<i>Interim Dean: Professor S Bourne</i>
<i>Acting Dean: Professor D Wardle</i>	Lisa Matthys	DEGREE OF BACHELOR OF SCIENCE
DIPLOMA IN THEATRE & PERFORMANCE	DEGREE OF BACHELOR OF SOCIAL WORK	Frederick Jeffrey Chigwaza
*Kgomotso Jafta Khunoane	Tatenda Kaponda	DEGREE OF BACHELOR OF SCIENCE HONOURS
ADVANCED CERTIFICATE IN EDUCATION IN ADULT EDUCATION	DEGREE OF BACHELOR OF SOCIAL SCIENCE HONOURS	<i>In Computer Science:</i> *Gcina Banele Matsebula Frida Muthoni Mjaria
*Muriel Elthesia Kroukamp *Mzimasi Daniel Mngeni Saint Expedite Lhamann Ondzongo *Christiena Henrietha Snyman	<i>In Gender &amp; Transformation:</i> *Thaania Zukhanye Mbali Nqobani Bruce Ngubani	<i>In Geology:</i> *Mochaka Petrose Shakhane
	<i>In Social Policy &amp; Management:</i> Nonkululeko Precious Memela	<i>In Ocean &amp; Atmosphere Science:</i> *Kerry-Leigh Cross

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# FACULTY OF HUMANITIES

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## ORDER OF PROCEEDINGS

Academic Procession.

*(The congregation is requested to stand as the procession enters the hall)*

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Dedication will be read by a member of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

The University Book Award.

The University Creative Works Awards.

The Master of Ceremonies will introduce the Guest Speaker.

Address by the Guest Speaker.

The graduands and diplomates will be presented to the Presiding Officer by the Acting Dean of the faculty.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall.

*(The congregation is requested to remain standing until the procession has left the hall.)*

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## **DISTINCTIONS IN THE FACULTY OF HUMANITIES**

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Bachelors degrees may be awarded with distinction

in a subject, where the student has an average of at least 75% and no mark below 70%

in the degree, where the student has both distinction in at least one subject and first class passes in at least 10 courses.

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees may be awarded with distinction

for the dissertation, (in a coursework and dissertation curriculum) for especially meritorious work, the dissertation being in the first class (75% or better)

in the degree, for especially meritorious work, where the average is 75% or better and no component is below 70%.

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## UCT BOOK AWARD

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The University Book Award recognises the publication of books, written by University staff that brings credit to the University.

**Previous recipients of the award have been:**

1984	J M Coetzee (Arts)	Waiting for the Barbarians
1985	G M Branch (Science)	The Living Shores of South Africa
1986	L H Opie (Medicine)	The Heart: Physiology, Metabolism, Pharmacology and Therapy
1987	M J Hall (Arts)	The Changing Past: Farmers, Kings and Traders in Southern Africa, 200 - 1860
1988	R G Lass (Arts)	The Shape of English: Structure and History
1989	H Bradford (Arts)	A Taste of Freedom
1990	J M Coetzee (Arts)	Age of Iron
	K M Coleman (Arts)	Book IV of the Silvae of Statius
1991	R Mendelsohn (Arts)	Sammy Marks, "The Uncrowned King of the Transvaal"
1992	P Skotnes (Fine Art & Architecture); S Watson (Arts); J Parkington (Arts) and N Penn (Arts)	Sound from the Thinking Strings
1993	D Chidester (Social Science & Humanities)	Shots in the Street
	W Nasson (Arts)	Ebram Esau's War
1994	G M Branch (Science); C L Griffiths (Science); L Beckley and M L Branch	Two Oceans: A Guide to the Marine Life of Southern Africa
1996	D Coplan (Humanities)	In the time of the Cannibals
	P Harries (Arts)	Work, Culture and Identity
	M Shain (Arts)	The roots of anti-Semitism in South Africa
	T Rajna (Music)	Harp Concerto
1997	B Warner (Science)	Cataclysmic Variable Stars
1998	M S Blackman (Law)	Companies (in Law of South Africa, first re-issue Vol 4, parts 1, 2 and 3)
	J V Bickford-Smith (Arts)	Ethnic Pride and Racial Prejudice in Victorian Cape Town: Group Identity and Social Practice, 1875 - 1902
1999	M Mamdani (Humanities)	Citizen and Subject: Contemporary Africa and the Legacy of Colonialism
2000	J Higgins (Humanities)	Raymond Williams. Literature, Marxism and Cultural Materialism



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## UCT BOOK AWARD (CONTINUED)

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2001	N G Penn (Historical Studies)	Rogues, Rebels and Runaways
2002	J Glazewski (Law)	Environmental Law in South Africa
2003	T D Noakes (Health Sciences)	Lore of Running
2004	MS Blackman (Law); RD Jooste (Law); GK Everingham (Law)	Companies Act: Commentary
2005	N Natrass (Commerce)	The Moral Economy of Aids in South Africa
2006	P Knox-Shaw (Humanities)	Jane Austen and the Enlightenment
2007	W Nasson (Humanities)	Britannia's Empire – Making a British World
2008	P Bruyns (Science)	Stapeliads of Southern Africa and Madagascar
2009	P Skotnes (Humanities) N Penn (Humanities)	The Archive of Willem Bleek & Lucy Lloyd The Forgotten Frontier
2010	C Vaughan (Health Sciences)	Imagining the Elephant: A Biography of Allan Macleod Cormack
2011	JC De Villiers(Health Sciences)	Healers, Helpers and Hospitals: A history of military medicine in the Anglo-Boer War
2012	No award made	
2013	S Loots (Humanities)	Sirkusboere
2014	N Natrass (School of Economics)	The AIDS Conspiracy: Science Fights Back
2015	S Shaikh (Religious Studies)	Sufi Narratives of Intimacy
2016	L Modisane (Centre for Film & Media Studies)	South Africa's Renegade Reels: The Making and Public Lives of Black-Centred Films
2017	D Chidester (Religious Studies)	Empire of Religion: Imperialism and Comparative Religion

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## UCT BOOK AWARD (CONTINUED)

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The book award for 2018 is to be awarded to:

**PROFESSOR DAVID WARDLE**

*Suetonius Life of Augustus*

*Suetonius: Life of Augustus* (Oxford University Press, 2014) is a comprehensive, historical, historiographical and literary commentary in English on the biography of Rome's first emperor, Augustus, that was written in the second century AD. It is the first scholarly commentary to be accessible to readers without any knowledge of Latin or Greek through its use of English lemmata, while the new translation remains faithful to the original Latin. It is the third volume by David Wardle in Oxford University Press's prestigious Clarendon Ancient History Series.

The biographer and scholar, C. Suetonius Tranquillus, who rose from relative obscurity in what is modern day Algeria to serve at the head of the Roman civil service, used his knowledge of the job of an emperor to create an evaluative framework which he employed for the first biographies of Rome's emperors. This commentary examines the complex picture that Suetonius drew, showing how the biographer used official records, contemporary propaganda and the reactions of ordinary people to evaluate Augustus, and assesses the reliability of the account that he generates. Augustus completed the overthrow of Rome's traditional form of government and initiated a form of hereditary monarchy, but, nonetheless, emerged with a reputation as a statesman. Suetonius' analysis reveals what Romans believed about how an autocrat should exercise power. This commentary crucially examines Suetonius' work not just as a repository of facts, but as a literary artefact carefully constructed by its author

Reviewers have described Suetonius' *Life of Augustus* as "likely to be the first port of call on the subject for many years to come", "an invaluable resource", "absolutely invaluable" and "un ouvrage en tous points remarquables, qui constitue de loin le meilleur commentaire de la *Vie d'Auguste* à ce jour" [transl.: 'a work that is remarkable in every respect, which constitutes by far the best commentary on the *Life of Augustus* to this day'].

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## MERITORIOUS PUBLICATION AWARD

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The University Meritorious Publication Awards recognises noteworthy monographs and books published by UCT authors. These publications merit recognition for their contribution to learning and scholarship.

*Drawing the Line: Towards an Aesthetics of Transitional Justice* by Professor Carrol Clarkson

*Rights after Wrongs: Local Knowledge and Human Rights in Zimbabwe* by Dr. Shannon Morreira

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## THE UNIVERSITY CREATIVE WORKS AWARD

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The University Creative Works Award recognises the production of outstanding and/or influential creative works (art works, performances, productions, compositions, architectural design) that make a scholarly contribution.

**Professor Hendrik Hofmeyr**

***Second Symphony – The Elements (Composition)***

Hendrik Hofmeyr is Professor and Head of Composition and Music Theory at the South African College of Music, UCT. He has been described as the most performed and commissioned composer of classical music in South Africa, and has won several national prizes and awards, as well as three international competitions, among them the prestigious Queen Elisabeth of Belgium Competition.

Hofmeyr's *Second Symphony – The Elements* was premiered in 2017 by the Cape Philharmonic Orchestra under the direction of Conrad van Alphen. The work explores the notion postulated by the ancient Greeks that everything in the universe is constituted of four basic elements, namely air, earth, water and fire. As in mediaeval metaphysics, the elements are also treated as symbols of human conditions. For Hofmeyr, the challenge was to find musical materials that corresponded not only to the physical, but also to the emotional, psychological and symbolic connotations of these elements, and to weld them into a work which could be appreciated also at the level of absolute music.

The result is an essay in the creation of monumental structure from the smallest particles of the musical fabric, mirroring the concept of physical and spiritual universes evolved from the elements. This is achieved by creating a strikingly original musical language in which a myriad micro-activities accrue to form vast textural and architectural complexes. While such practices were not uncommon in atonal works, their deployment in an expanded tonal context, and in conjunction with symphonic thematicism, is extremely novel.

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## THE UNIVERSITY CREATIVE WORKS AWARD (CONTINUED)

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The symphony is usually regarded as the apex of instrumental writing in any composer's oeuvre, and this, Hofmeyr's first purely orchestral symphony, is the first major symphony to emerge in South Africa in more than 30 years. The work, while demanding both in terms of execution and appreciation, was well received by the public and critics, and was described by the Cape Times as a most important addition to the South African symphonic repertoire.

**Associate Professor Svea Josephy**  
***Satellite Cities* (Solo Exhibition)**

Svea Josephy is awarded the Creative Works Award in 2018 for her solo exhibition, *Satellite Cities*. *Satellite Cities* was held at the Wits Art Museum, Johannesburg, 19 January – 6 March 2016 and co hosted by the WITS City Institute.

*Satellite Cities* was a curated exhibition including an impressive body of photographs accompanied by text panels and a catalogue. The exhibition arises from a substantial research project over a number of years. Josephy investigated parallels in the naming of 'twin towns' in South Africa and other parts of the world – for instance Delft in Cape Town and Delft in The Netherlands. Initially focused on a colonial past, these photographs have more recently connected different locations, in South Africa and abroad, as sites of struggle, and of war, liberation and reconstruction, for example Kosovo in Eastern Europe and Kosovo in the Western Cape. In *Satellite Cities* Josephy presents large colour photographs that explore what these connections mean to the people in the places that adopted these names. The photographs are often displayed as diptychs to draw out parallels, similarities and differences between events taking place in the war zones and similar conditions in life circumstances, facilities and infrastructure in the places in South Africa at the time.

In *Satellite Cities*, Svea Josephy has developed a body of original creative work, which demonstrates a distinctive contribution to the field of visual art production. This exhibition engages with contemporary art, producing artifactual research, which connects the construction of land, place and identity and what these might mean, particularly in relation to lens based practice in contemporary South African art.

The exhibition generated critical and peer review, media interest, excellent visitor attendance from educational institutions and the general public, several walkabouts, two public workshops, an academic seminar and peer reviewed journal article. In working closely with the WITS City Institute, a research centre for Critical Urbanisms, the exhibition occupied an interdisciplinary space - both within the academic arena and in the area of engaged scholarship.

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## THE UNIVERSITY CREATIVE WORKS AWARD (CONTINUED)

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**Dr Sara Matchett**

*Womb Of Fire* (Theatre Production)

**Conceptualised by Rehane Abrahams & Sara Matchett**

**Written & Performed by Rehane Abrahams**

**Directed by Sara Matchett**

**Designed by Craig Leo**

**Sonic-Scape by Lukhanyiso Skosana**

The nomination of *Womb of Fire* for a UCT Creative Arts Award was inspired by the work's insistence on addressing how violence in South Africa, over centuries, continues to play itself out on women's bodies. Set against an episode from the Indian epic, *The Mahabharata*, the play interweaves personal narrative and contemporary realities with the lives of two women from the founding years of the Cape Colony to interrogate the *Womb of Fire* that birthed South Africa. The play follows Grote Katrijn van Pulicat's (1681-1683) journey across India to Batavia and then to Cape Town as the first female bandit slave; it then explores the briefly brutal life of Zara (1648-1671), a Khoekhoen servant woman who was violently punished posthumously by the VOC for the crime of suicide. *Womb of Fire* looks at the power of the performing female body to challenge the pornography of Empire, in the process decolonising and retrieving itself. The play reaches back and forward across time to reassemble the dismembered body, allowing it to speak.

In terms of creative research, *Womb of Fire* attempts to translate the post-slave and post-colonial South African female body through personal performance practice. A philosophical interrogation of the translation of cultural memory through performance is traced through the work. Additionally, the production offers a pragmatic investigation that addresses translation both as an embodied activity of recalling erased memory and as a recuperation of the dis-membered post-slave /post-colonial female body. Through reflecting on an example of personal performance practice, *Womb of Fire* employs the performer and playwright's own post-slave body/post-colonial body as the locus of intersection between the private and the political, the biological and archival/historical.

Sara Matchett interrogates translation as an embodied process that explores the body as a site for generating images for purposes of performance making. As such her method of performance making, in this context, addresses how the post-slave body practically translates the archival narratives, and in particular how these intersect with the biological/personal. Through an investigation of breath experienced as an embodied element that is sensed somatically by the performer, Matchett interrogates the potential of breath to act as a catalyst for activating and translating memories, stories, and experiences held in the body of the performer.

**NAMES OF  
GRADUANDS/DIPLOMATES**

An asterisk \* denotes that the degree or diploma will be awarded in the absence of the candidate.

A dagger † denotes that the degree or diploma will be awarded posthumously.

**FACULTY OF HUMANITIES**

*Acting Dean: Professor D. Wardle*

**ADVANCED CERTIFICATE  
IN SENIOR PHASE TEACHING**

\*Karen Elizabeth Heyns

**HIGHER CERTIFICATE IN  
EDUCATION IN ADULT EDUCATION**

\*Mongezi Richard Phike

**DIPLOMA IN MUSIC  
PERFORMANCE**

Botshelo Eric Hunt

**DIPLOMA IN THEATRE  
& PERFORMANCE**

Zizipho Buti

\*Molatelo Tracy Maffa

**POSTGRADUATE DIPLOMA  
IN EDUCATION**

Sipho Motshwene Frederick Masha

\*Sam Troost

*In Primary Education:*

\*Katyusha Vuso

**POSTGRADUATE CERTIFICATE IN  
FET TEACHING**

Helene Gabrielle Renee De Villiers  
(with distinction)

\*Catherine Fulton (with distinction)  
Nabeelah Hendricks  
Elzette Malan (with distinction)  
Phakama Qwabe  
Cyrelda Victor

**POSTGRADUATE CERTIFICATE IN  
FOUNDATION PHASE TEACHING**

Aneeqah Arend (with distinction)  
Jessica Iris Ashforth  
Sinovuyo Bantu  
Kristy Charlton (with distinction)  
\*Esme Conradie (with distinction)  
Theona Cornish (with distinction)  
\*Simona Flavia Donato  
Jessica Catherine Ehrenreich (with  
distinction)  
Sinothando Phelisa James  
Shelly-Ann Johnson (with distinction)  
\*Alicia Cindy Kamaldien  
Mushfiqoh Ibnatu Yunis Kamaldien  
Kathryn Mary-Gwyneth Luyt (with  
distinction)  
Sisanda Mgema  
Kim Zanele Nduna  
Shalom Gladness Nkuna  
\*Kelley-Beth Oliphant (with distinction)  
Natalie Susan Sauls  
\*Victoria Jessie Elisabeth Wallis (with  
distinction)

**POSTGRADUATE CERTIFICATE IN  
INTERMEDIATE PHASE TEACHING**

Ilhaam Abrahams  
Mariam Ackerman  
\*Zaakirah Ahmed  
Nazeefah Alli  
Tanja Andric  
Nuraan Banderker  
\*Jessica Sarah Brown  
Demi Carelse  
Hsuan-Yu Chen (with distinction)  
Robyn Cupido  
Irshaad Dawjee  
Romezia Faith Fernandez  
Lindsey Galant  
Thulani Geza  
Sabgha Gierdien  
Katherine Sarah Gray  
Deborah Harrisankar  
Roopa Jeevan  
Laura Kay Le Roux  
Tembelihle Mangaliso  
Nosiphenathi Mathiya

Sarah Michelle Milborrow (with  
distinction)  
Nkosinathi Bright Mkhize  
\*Faye Elizabeth Muhl (with distinction)  
\*Vernon Ednard Petersen  
Ingrid Pienaar (with distinction)  
Stephanie Pillay  
Aneeqah Regal  
Melissa Anne Scheepers  
Vuyokazi Somana  
Lindsay Young

**POSTGRADUATE CERTIFICATE  
IN SENIOR PHASE AND FET  
TEACHING**

Mohamed Yusuf Adams  
\*Nosipho Precious Bele  
Shandre Kim Bezuidenhout  
Ethan Bingham  
\*Samantha Louise Blumberg (with  
distinction)  
Nokwanda Bovana  
Esther Burger (with distinction)  
Sameegah Carlsen  
Zurina Cassiem  
Sarah Louise Clark  
Carla Das Neves (with distinction)  
\*Dominique Anne Ducray (with  
distinction)  
\*Clifford Conrad Evanson (with  
distinction)  
Jade Kyla Fuller  
\*Robyn Gelb (with distinction)  
Georgina Mary Hamman  
\*Richard Duncan Hanly  
Zarah Catherine Hermans  
Samantha Lea Hops  
Athenkosi Cornelia Hoyi  
Rizqah Isaacs  
Arshicka Khan  
\*Rachelle Anne La Grange (with  
distinction)  
Geneve Yvette Lasker  
Le-Zhan Anthea Le Roux  
\*Timothy David Leslie  
Thato Mongezi Machona  
Tyla Shanice Marais (with distinction)  
Rotshidzwa Innocent Mathuge  
Tandile Mbatsha  
Callie Louise Mcevoy (with distinction)  
Mpumelelo Simon Mcinga  
Sarah Anne Meek (with distinction)  
Muammar Mohamed  
Florence Neo Moeketsi Mokhobo  
Bavisha Asha Moonasar

Adrian Kevin More (with distinction)  
Ncedo Mtsi  
Sayed Imtiyaz Noor  
Michael Nye  
Caitlin Georgina Dauncey De Barros  
Pinheiro  
Bradley Clive Prince  
Amanda Putuma

\*Emma Elizabeth Rycroft (with distinction)

Christian Karlheinz Setzer (with distinction)

Nyameko Skoti  
Luke George Stevens

\*Thomas Stielau

Lynn Brenda Swanevelder  
Dominic Christopher Swartz

Kayla Anjelica Thorne

\*Dylan-Lee Tidbury

Kagiso Noah Tshole

Stephanie Danielle Van Der Merwe

Danica Bernadette Van Der Zandt (with distinction)

Jessica Van Eeden

Candysse Amy Louise Vrancken (with distinction)

Philip Prahlad Vyas

Victoria Grace Welham

POSTGRADUATE DIPLOMA  
IN EDUCATION IN  
EDUCATIONAL TECHNOLOGY

\*Rehema Baguma

POSTGRADUATE DIPLOMA  
IN LIBRARY AND  
INFORMATION STUDIES

Nditsheni Calvin Muloiwa

DEGREE OF BACHELOR OF ARTS

\*Ridge Amaro

Arnold Wilson Sempebwa Basajjasubi

\*Nicholas Cowley Maclean Bester

Adrienne Botman

Luvuyo Doda

Monique Frances Hollis

Linné Stulting Human

Wendy Anelisa Kobe

Nina Rachel Leon

Samantha Tamanda Mbwana (with distinction in Film & Television Studies and Spanish)

\*Lehlogonolo Mapitsana Mohale

Salma Parker

\*Romy Rittmann

Taslimah Khan Sarguro

\*Danielle Lenita Imani Shay (with distinction in Religious Studies)

\*Rifiloe Alice Sibisibi

Kayo-Fay Tilley

\*Daniel Scott Wright

DEGREE OF BACHELOR  
OF ARTS IN FINE ART

Tamary Duduzile Rufaro Kudita

Duduza Nonkululeko Mchunu

DEGREE OF BACHELOR OF MUSIC

\*Franke Horton (with distinction in Jazz Ensemble, Jazz Improvisation and Jazz Piano and the degree with distinction)

Keegan Andre Steenkamp

DEGREE OF BACHELOR  
OF SOCIAL SCIENCE

Jenna Searll Abraham

Robyn Joy Alexander

Lesedi Mahlako Baipone

Ziggy Benoliel

Nicole Kelsey Bento

Jacqueline Tammin Braun

\*Natasha Rasula Cadir

M'cArnold Hleng'Inkosi Mbal'enhle  
D'Nkomo

Anastasia Chloe Dooms

\*Kwame Tawia Essel-Mensah

Layla Faulman

Xabiso Kimmarty Fuzile

Gatian Joe Gabriel

Jared James Gordon

Thulani Siphokazi Gqoloqa

Nicole Sanelisiwe Hlengwa

Sinethemba Jaca

Jason Johnson

Stephen Kasiga

\*Gabisile Kupelo

\*Layla Helga Le Roux

\*Denzhe Fortunate Mabuli

Sinoxolo Sisiphokazi Mabuto

\*Jonas Mokgano Maepa

De'Allackquinz Ndinani Majali

Mmalerato Mmapula Refentse Maletse

Nicole Marcel Malyon

Lesego Maseloane

Roxanne Maxine Mathobie

Emma Jessica Maytham

Sthandwa Ntombikayise Mbelle

James Mburu

Mu'amr Mollajee

\*Timothy Robert Möller

\*Nonkululeko Zama Moyo

Tsungiso Regina Mutsvairo

Dumisani Wilson Ncubeni

Clare Nompilo Ndlovu

\*Sonwabile Ngcukuva

Chwayita Ntwasa

Sarah Georgina Osborn

Kirsten Parks

Nurunisa Peck

Liam Thomas Peterson

Wynona Joslyn Phillips

Kate Anne Reeves

Tabawah Skei

Anne Christelle Medom Tchangoum

\*Somila Tondile

Claudia Christiane Thelma Turnbull

Emily Charlotte Von Lemm (with distinction in German Language & Literature)

Maximilian Rudolf Wallisch

Buck Whaley

Byron Vodry Williams

DEGREE OF BACHELOR  
OF SOCIAL WORK

Claudine Mckerry

Nhlalo Mkhosomuhle Nkiwane

Megan Juanita Smith

DEGREE OF BACHELOR  
OF ARTS HONOURS

*In Art Historical Studies:*

Khanya Naledi Mashabela (first class)

*In Curatorship:*

\*Ruwadzano Judith Rusike

*In Drama:*

\*Malaika Olivia Louise Evans

*In English Studies:*

Abdullah Dada

\*Munashe Lovejoy Makado

*In Film & Television Studies:*

\*Kholekile Sibusisiwe Cele

\*Farren Fredericks (first class)

\*Riaan Hendricks

\*Daniel David Joustra (first class)

\*Cameron Luke Peters (first class)



Liam Oliver Stout

*In Film Theory & Practice:*

Suzanna May Howard (first class)

*In Hebrew:*

Uzair Ramjam

*In Historical Studies:*

Pumelela Ntsezo

*In International Relations:*

Siyabonga Thomas Kruger  
Banele Mdleleni

*In Media Theory & Practice:*

\* Nadia Ghumra  
\* Maxinne Mboweni

DEGREE OF BACHELOR  
OF EDUCATION HONOURS

Mogammat Ebrahim Ackers  
(first class)

Sharon Gail Daniels

Luyanda Dyasopu

Jason Donovan Matthews

Qondile Sinthemba Ngobese

†Liam Alexander Reid

Glendalene Samuels

Wanda Tina

DEGREE OF BACHELOR  
OF MUSIC HONOURS

*In Composition:*

\*Eugene Walter Kierman (first class)

*In Musicology:*

\*Andrew John Kuhn

*In Performance:*

Dominic Hlumelo Hugh Daula  
(first class)

DEGREE OF BACHELOR OF SOCIAL  
SCIENCE HONOURS

*In Anthropology:*

Amy Beukes

Thulasizwe Alton Clements

Brogan Dietrich

\*Tyler Gideon Fouche (first class)

Nkosinathi Mncwabe

*In Clinical Social Work:*

Peter David Du Preez

*In Development Studies:*

Tichayana Konono (first class)

*In Environmental & Geographical  
Studies:*

\*Mpho Linda Sekhoto

*In International Relations:*

Siyambulela Madlingozi

*In Organisational Psychology:*

\*Keisha Merapelo Moeti  
Mishka Arshad Vorajee  
\*Natalie Katharina Marcella Witschel

*In Political Communication:*

Luthando Ayachuma Kolwapi

*In Politics:*

\*Ryan Duncan Prithraj

*In Probation and Correctional Practice:*

\*Melany Janice Vries

*In Public Policy & Administration:*

\*Zipho Majova  
Sandiso Ntombikayise Matshikiza

*In Social Policy & Management:*

Uendjiundja Veronica Black  
Rudo Olga Shumba

DEGREE OF MASTER OF ARTS

*In Afrikaans*

Izabel De Villiers

*In Anthropology:*

Ephious Davis III  
Mutsawashe Helen Mutendi  
(with distinction in the dissertation)

*In Creative Writing:*

Gerhard Michael Barkhuizen (with  
distinction)  
Ilze-Mari Hugo (with distinction)  
Conrad Peter Kemp (with distinction)  
\*Nancy Nel  
Anton Howard Taylor

*In Documentary Arts:*

Anna Elizabeth Ferreira  
Laurence Foucteau  
\*Munyaradzi Alex Gwaze

*In Drama:*

Ronel Jordaan  
\*Abigail Wiese

*In Historical Studies:*

Lucienne Erica Argent (with  
distinction)  
\*Rasmus Nielsen Bitsch (with  
distinction)  
Nicole Yakira Isaacs (with distinction)  
\*John Raymond Mawbey  
\*Himal Ramji (with distinction)

*In International Relations:*

\*Jennifer Imelda Binley (with distinction  
in the dissertation)  
Moses Onyango Ogutu  
\*Ryan Rutherford (with distinction)

*In Language, Literature & Modernity:*

Hassana Moosa (with distinction)  
Rowan Thando Morar (with  
distinction)  
Ted-Allan Ssekimpi  
\*Yannick Philippe Triebel (with  
distinction)

*In Linguistics:*

Tlalane Alexandrina Lekhanya-Tshikare  
(with distinction)  
Beauty Friday Happy Umana

*In Media Studies:*

\*Grace Kendi Osano  
Kim Samson (with distinction)

*In Media Theory & Practice:*

Ochega Ann Ataguba (with distinction)  
\*Kyle Fitzgerald De Villiers (with  
distinction)  
\*Muhammad Zaid Gamielidien

*In Organisational Psychology:*

Danielle Jamie Valentine  
Camilla Elizabeth Van Aardt

*In Philosophy:*

Chase Gibson Huff  
Gabriele Eva Teale James (with  
distinction)

*In Politics:*

\*Justin Dacre Haddon

\*Savannah Storm Wilmot

*In Psychological Research:*

Sol Maria Fernandez Knight  
Tamsyn Mary Naylor (with distinction)  
Ashleigh Eden Nestadt (with distinction)  
Sorrel Claire Pitcher (with distinction)  
Nicholas Reid (with distinction)  
Shannon Stewart (with distinction in the dissertation)

*In Religious Studies:*

\*Ömer Faruk Es  
Abdulahakim Abdalla Nsohya (with distinction in the dissertation)

*In Spanish:*

\*Petronella Potgieter (with distinction)

*In Screenwriting:*

Sean Francis Mongie (with distinction)  
Keorapetse Lentsoe Serote  
David Brett Stein (with distinction)

*In Sociology:*

Rebecca Mpho Matsie (with distinction)

*In Theatre & Performance:*

Juliet Anne Jenkin (with distinction)  
\*Delicia Khanyisile Mbongwa (with distinction)  
Kivithra Naicker

DEGREE OF MASTER OF ARTS IN  
NEUROPSYCHOLOGY

\*Stacey Jane Hall  
Natasha Jooste (with distinction)  
Jessica Ellen Ringshaw (with distinction)  
Lucinda Panashe Tsunga (with distinction in the dissertation)

DEGREE OF MASTER  
OF EDUCATION

*In Adult Education:*

\*Kirsty Jeannette Cunningham  
Kasongo Rabecah Meki  
\*Ashleigh Lauren Steer

*In Applied Language & Literacy Studies:*

\*Luke Alexander Arnold  
Huijiao Li

Linda Lynette Mhlabeni

\*Lwazi Mkula (with distinction in the dissertation)

\*Elizabeth Maria Munro (with distinction in the dissertation)

\*Nicola Jane Pearton

*In Curriculum Studies:*

\*Bokju Ha

*In Education:*

Helena Claudina Wilhelmina Cilliers

*In Educational Administration, Planning and Social Policy:*

Godspower Chidiuto Onwudiwe

*In Information Communication*

*Technologies:*

\*Bongiwe Vennesa Sithole

*In Primary Education:*

Joanne Kelly Peers (with distinction)  
Joyce Laetitia West

DEGREE OF MASTER OF FINE ART

\*Eva Tiwombolenji Chikabadwa  
\*Megan-Leigh Heilig (with distinction)  
\*Nadine Kim Hutton (with distinction)  
\*Emily Harriet Bulbring Robertson

DEGREE OF MASTER OF LIBRARY  
AND INFORMATION STUDIES

Beatrice de la Porte  
Laimi Iyambo  
Limakatso Elizabeth Lefalatsa

DEGREE OF MASTER OF MUSIC

*By dissertation:*

Victoria Samwelevna Lwebangila  
Vera Vukovic (with distinction)

*By dissertation and Performance:*

\*Leoui Janse Van Rensburg

DEGREE OF MASTER  
OF PHILOSOPHY

*In African Studies:*

\*Yasin Balaban

Brian Michael Muller (with distinction in the dissertation)

\*Mia Strand (with distinction)

*In Development Studies:*

\*Jean Claude Havyarimana  
Caroline Kensett  
Gerald Mirirai Mabweazara  
Fadzai Muramba  
Lilly Clara Musaya  
\*Mina Amin Sami Yousseif (with distinction in the dissertation)  
Samantha Sinikiwe Sithole (with distinction in the dissertation)  
\*Kate Victoria Welsh  
\*Ela Carlotta Ziegler

*In Digital Curation:*

\*Susnata Bhattacharya  
Lindsay Callaghan (with distinction)  
Tlhalefo Metlhaleng  
Sarah Kate Schäfer (with distinction)  
\*Cornelle Scheltema-van Wyk

*In Environmental Humanities:*

Benjamin Klein (with distinction)  
\*Neil Gavin Ross Overy (with distinction)  
Ingrid Sinclair (with distinction)  
\*Thomas Stielau

*In Fine Art:*

Thulile Esther Gamedze (with distinction)

*In Library & Information Studies:*

Israel Mbekezeli Dabengwa  
Anna Kaukowe Ngula  
Janusz Michal Skarzynski (with distinction)

*In Justice & Transformation:*

Gianna Nicole Maita  
\*Jody Iris Metcalfe  
\*Mamello Sebatatso Mosiana  
Alexander Rex Pennington (with distinction)  
\*Penelope Anne Shepherd  
\*Alexandra Sian Britha Stonehouse (with distinction)

*In Public Policy & Administration:*

\*Nomawethu Mbasakazi Dumezweni

DEGREE OF MASTER  
OF PHILOSOPHY IN EDUCATION

*In Higher Education Studies:*  
Anthea Simone Pinto

DEGREE OF MASTER  
OF SOCIAL SCIENCE

*In Anthropology:*  
Tamuka Chekero (with distinction in  
the dissertation)  
Yvonne Zamaswazi Sibaya (with  
distinction)  
Christoph Anton De Chavonnes Vrugt

*In Clinical Social Work:*  
Nondumiso Maud Dubase

*In Economic Development:*  
Samantha Filby (with distinction)

*In Global Studies:*  
Michelle Aderinsola Adebulehin (with  
distinction)  
\*Brian Namaimba Mwiimbwa  
\*Claire Elizabeth Tapscott (with  
distinction)

*In Industrial Sociology:*  
Ceclin Kirsty Begbie  
\*Gregory Kevan Byrne Dor

*In International Relations:*  
\*Erin Drake (with distinction)  
\*Loise Wanjiru Ndegwa  
\*Molly Wood

*In Organisational Psychology:*  
Natasha Baret (with distinction in the  
dissertation)  
Aimee Louise Brenner  
Catherine Mary Campbell (with  
distinction)  
Carla Jacobs  
Alexandra Mary-Anne Mcewan Marsh  
Patience Motlana

*In Philosophy:*  
\*Robert Jenkin

*In Political Communication:*  
Claudia Varjabedian

*In Political Studies:*  
\*Ziyana Miché Lategan

*In Probation & Correctional Practice:*  
Claire Anne Corin

*In Psychology:*  
Tendai Elvis Mutembedza

*In Social Anthropology:*  
Anita Campos

*In Social Development:*  
Geraldin Wanelisa Albert (with  
distinction)  
Ludwig Chanyau (with distinction)  
\*Amanda Manqoyi-Ouamba (with  
distinction)  
Yalonda Aida Mwanza (with  
distinction)  
Hilma Nabot

*In Social Policy & Management:*  
Sarah Jessica Atmore (with distinction)  
Adele Oliver Bruggeman

*In Social Work:*  
\*Zolani Metu (with distinction)  
Khosi Tshangela (with distinction)

*In Sociology:*  
\* John William Robert Davids (with  
distinction)  
Sonwabo Vincent Ngcelwane (with  
distinction)

DEGREE OF DOCTOR  
OF PHILOSOPHY

*In African Studies:*  
Henry Obi Ajumeze  
Thesis Title: *The biopolitics of violence  
in the drama of the Niger delta*

Obi Henry Ajumeze holds a BA and an  
MPhil in Theatre Arts from the University  
of Calabar and University of Ghana  
respectively. He joined the Centre for  
African Studies at UCT in 2015 for his  
PhD studies. Before joining UCT, he  
worked as a teaching assistant at the  
University of Ghana.

Obi Henry Ajumeze's thesis  
explores the dramatic representation of the  
violence and counter violence that defines  
the contemporary experience of the Niger  
Delta. It argues that previous explorations  
of this experience have foregrounded the  
human actors and protagonists and that

this has led to the erasure of the 'agency'  
of the environment, the landscape and  
the nonhuman world. The work then sets  
out to recover the significant role played  
by the environment in the politics of the  
Niger Delta. In short, the work focuses  
on what Obi Henry Ajumeze describes as  
"the biopolitics of violence"; and it  
privileges the non-human rather than the  
human actors in the biopolitical drama  
that defines the Niger Delta as a textbook  
instance of Giorgio Agamben's 'state of  
exception'.

*Supervisor:* Associate Professor  
H Garuba (School of African and Gender  
Studies, Anthropology and Linguistics)

Senzeni Ncube  
Thesis Title: *The role of social capital in  
the Fast Track Land Reform Programme  
in Zimbabwe: a case of Rouxdale  
(Remaining Extent) farm, Bubi District,  
Matebeleland North Province*

Senzeni Ncube holds a Bachelor of Arts  
Honours Degree from the Midlands State  
University, Zimbabwe. She joined UCT  
in 2005 and successfully completed an  
honours and master's in Development  
Studies before enrolling for a PhD in  
African Studies.

Senzeni Ncube's thesis  
examines the role of social capital in  
the Fast Track Land Reform Programme  
(FTLRP) in Zimbabwe. Using  
Rouxdale (R/E) Farm in Bubi District,  
Matabeleland North Province as a case  
study, she explores how people drew  
upon and deployed their existing social  
relationships during the land invasion  
and during their resettlement as FTLRP  
beneficiaries. She also explores how  
their doing that affected the post land-  
resettlement dynamics among land reform  
beneficiaries. She describes how ordinary  
people, including unmarried women,  
accessed land through FTLRP. Drawing  
on the data she presents she argues that,  
while social capital played an important  
role in the initial phase of the FTLRP,  
the resettlement model adopted (A1  
Villagized Model) negatively impacted on  
social capital dynamics after resettlement.  
Senzeni Ncube's study illustrates that  
social capital is dynamic and that it is

influenced by various factors including actions and inactions by the state, as well as types of collective goals of actors.

*Supervisor:* A/Professor H Chitonge (School of African and Gender Studies, Anthropology and Linguistics)

*Co-supervisor:* A/Professor F Matose (Sociology)

*In Drama:*

Pedzisai Maedza

Thesis Title: *Chains of memory in the postcolony: performing and remembering the Namibian genocide*

Pedzisai Maedza holds a BA Honours from the University of Zimbabwe and an MA from UCT. His MA dissertation won the University of Leiden's African Thesis Award and the International Federation for Theatre Research's New Scholars' Award. His PhD research has been supported by a German Academic Exchange Service (DAAD) research fellowship at Johannes Gutenberg University-Mainz, Germany.

Pedzisai Maedza's thesis focuses on how performance has been used to transmit the memory of the 1904-1908 German genocide of Herero and Nama in Namibia. It investigates the relationship between violence, memory and space by focusing on those elements of the genocide that are publicly performed and remembered. The thesis contributes to an understanding of how memory of the Namibian genocide is produced and transmitted across time and generations, both inside and outside Namibia's national borders. It shows how performance shapes, contests and circulates genocide memory across time and space by focusing on what is remembered, how it is remembered and by paying attention to when it is remembered. Pedzisai Maedza's thesis demonstrates that the past must be articulated to become memory; and that genocide performances are not just inert artefacts but agents that shape and influence memory of genocide.

*Supervisor:* Associate Professor V Baxter (Drama)

*Co-supervisor:* Professor C Lentz (Johannes Gutenberg University-Mainz)

*In Education:*

Theresa Magdalen Giorza

Thesis Title: *Making kin and taking care: intra-active learning with time, space and matter in a Johannesburg preschool*

Theresa Giorza has a BAFA from UCT and master's degrees in Fine Art and Education from UKZN and Wits respectively. She began her PhD in 2013 whilst teaching at the Wits School of Education.

Theresa Giorza's thesis performs an intra-active posthuman arts-based enquiry. It constitutes a postdevelopmental account of the collaborative learning of a group of five-year-olds in an inner-city Johannesburg preschool. Through the methodologies of philosophy with children and Reggio Emilia she shows how pedagogical documentation disrupts dominant deficit childhood discourses and recognises children fully as co-researchers. She does this by paying care-full attention not only to names, words and language, but to the always entangled material-discursive reality of curriculum materials, colonial history, trees, fences, affect, bodies, art materials, grass and insects in a public park. Since time, space and matter are inseparable and diffracting through one another in what constitutes learning, her transdisciplinary research poses urgent questions about the injustices and inequalities created by human-centred education. These include privileging culture over nature, adult over child and human over nonhuman in knowledge production. Diffraction-as-method creates fresh decolonising insights which demand a response-able and relational aesthetics and ethics salient for education on a damaged planet.

*Supervisor:* Professor K Murriss (School of Education)

*Co-supervisor:* Associate Professor K Dixon (University of the Witwatersrand)

Rouxnette Meiring

Thesis Title: *Com-post-humanism: implications for Foundation Phase environmental education in South Africa*

Rouxnette Meiring holds a BA Drama and Higher Education Diploma from

Stellenbosch University and an MA degree in Film and Media Studies from UCT. She joined UCT's School of Education in 2014 for her doctoral studies.

Rouxnette Meiring's thesis focuses on climate change and environmental education in early childhood education, using a posthuman framework to connect these issues. She explores indigenous and non-Western philosophies which problematise the Western Enlightenment idea of Man as the pinnacle of creation. Her practical research in a South African urban primary school sheds light on issues of colonial legacies that continue to affect environmental education in South African schools. It also identifies ideological tensions in prescribed work books and curriculum. She demonstrates how a humanist curriculum and normative standards are counterproductive in efforts to address issues of climate change and species extinction. Rouxnette Meiring's thesis instead calls for pedagogies of affective learning with land, multispecies engagement and 'storied matter'.

*Supervisor:* Professor K Murriss (School of Education)

*In English Language and Literature:*

Heidi Barends

Thesis Title: *"The dream ends there": transnational feminist negotiations in Pauline E. Hopkins and Olive Schreiner*

Heidi Barends completed her BA in Language and Culture at Stellenbosch University in 2011, and her honours and master's in English at UCT. She began full-time study toward her PhD in 2015.

Heidi Barends' thesis investigates the writings and careers of two feminists whose biographies span roughly the same period. Although they never encountered each other in their lifetimes, resonances between the works of African American Pauline E. Hopkins (1859-1930) and South African Olive Schreiner (1855-1920) reflect their shared contexts of settler colonialism, imperialism and segregationism, in the U.S. and South Africa respectively. The thesis shows that these shared contexts affected their gender and race activism in profound ways. Drawing from transnational feminism, the thesis brings these two



writers' works together for the first time, illuminating the historical moment of the making of transnational feminism in general and their transnational feminisms in particular. By working across the fault lines of race, gender, and empire, Heidi Barends' thesis makes a case for thinking within and beyond the geopolitics of the nation and contributes to the work of uncovering the historical legacies of transnational feminisms.

*Supervisor:* Dr K Mkhize (English Language and Literature)  
*Co-supervisor:* Emeritus Professor D Driver (English Language and Literature)

*In Environmental and Geographical Studies:*

Jerónimo Delgado Caicedo  
*Thesis Title: The role of cities in the foreign policy of emerging powers: the cases of Bogotá, Colombia and Johannesburg, South Africa*

Jerónimo Delgado holds BA and MA degrees in International Relations, from the Universidad Externado, Bogotá, Colombia and the Colombian Diplomatic Academy respectively. He began his doctorate in 2015, having previously worked at the African Studies Centre and the Ministry of Foreign Affairs in Colombia.

Jerónimo Delgado's thesis focuses on the role of Global South cities in the foreign policy of emerging powers. Through the cases of Bogotá, Colombia and Johannesburg, South Africa, he engages in a geopolitical analysis of 'emerging powers'. He uses both the national and city scale notions of 'power resources', 'leadership' and 'international recognition' to find that cities are crucial contributors to their countries' emergence in the world. He finds that mismatches between the city and the State in foreign policy are caused by dynamics occurring both at national and local levels, and that they range from constitutional and legal ambiguities on decentralisation to operational and practical disconnects between the two spheres of government as regards foreign policy. He demonstrates that a working co-operation between city and State as regards foreign policy can be achieved only by modifying the local-

national nexus while granting the city a voice in the International System.

*Supervisor:* Professor S Parnell (Environmental and Geographical Science)

Witness Kozanayi

*Thesis Title: Influences of customary and statutory governance on sustainable use and livelihoods: the case of baobab, Chimanimani district, Zimbabwe*

Witness Kozanayi holds a BSc in Agriculture Management from the Zimbabwe Open University and an MSc in Environmental Management for Business from Cranfield University, United Kingdom. He began his doctoral work in 2010, having previously worked in research and rural development.

Witness Kozanayi uses the baobab tree as a lens through which to focus on the interplay between customary and statutory governance in managing natural resources; on the influence of such interactions on ecological sustainability and livelihoods; and on the contextual factors that shape such approaches. In an interdisciplinary and ethnographic study that uses qualitative and quantitative data across two study sites in eastern Zimbabwe, he shows that the baobab tree is used and valued in multiple ways by rural households, but that increased commercialisation of the tree's products are weakening customary practices regarding the tree's use. He shows how this parallels situations where overlaying statutory onto customary forms of governance, without due regard for local practices, can lead to unintended, often negative consequences. Witness Kozanayi argues for the importance of considering customary practices within a continuum of resource governance, with statutory approaches introduced only as the need arises.

*Supervisor:* Associate Professor RP Wynberg (Environmental and Geographical Science)

*Co-supervisor:* Associate Professor F Matose (Sociology)

Saul Alexander Roux  
*Thesis Title: (Re)framing sustainable transitions: perspectives from a city in the Global South*

Saul Roux holds an LLB from Stellenbosch University and a Master of Environment from the University of Melbourne. His research formed part of a three year research partnership between the City of Cape Town and the African Centre for Cities. His focus area in the programme was Energy Governance.

Saul Roux's thesis focuses on the conditions under which energy systems transition to increasingly sustainable configurations. It does so through an exploration of the City of Cape Town's electricity distribution arrangements. His investigation is situated within debates about socio-technical transitions and a multi-level perspective of socio-technical change. Roux investigates the implications of applying a multi-level perspective to cities in the Global South. He further examines the relationship between regulation and urban socio-technical regimes and the role of municipal local government in sustainable transitions. He finds that value tensions related to socio-technical regimes are played out in regulatory, organisational and political landscapes. Based on his findings, including a conclusion that competing value systems are integral to the co-evolutionary process of regime configuration and reconfiguration, Saul Roux offers an alternative conceptualisation of socio-technical regimes as systems produced and reproduced through value contestation.

*Supervisor:* Dr Z Patel (Environmental and Geographical Science)

*Co-supervisor:* Emeritus Professor C Shearing (Public Law)

*In Gender Studies:*

Jessica Anna Scott  
*Thesis Title: Southerned: queer marginality in two souths*

Jessica Scott holds an MMus degree in Organ Performance from the University of Illinois, and an MSocSc in Gender Studies from UCT's School of African and Gender Studies, Anthropology and

Linguistics.

Jessica Scott's doctoral research explores how hegemonic global discourses on gay, lesbian, bisexual, transgender and intersex rights work as difficult and powerful influences on counter-heteronormative activisms located beyond the metropole. Working with queer activisms from contexts characterised by their geographic, economic, and cultural difference from metropolitan notions of what "fighting for freedom" should look like for LGBTI communities, Scott theorises a relationship to "out of the way" places which reconfigures political and strategic priorities for both queer theory and activisms. Her thesis creates bold connectivities between very different contexts across the American South and South Africa; and it makes an innovative and courageous contribution to the range and methodologies of queer theory.

*Supervisor:* A/Professor J Bennett  
(School of African and Gender Studies,  
Anthropology and Linguistics)

*In Hebrew Language and Literature:*  
Halim Gençoğlu  
Thesis Title: *Socio-political challenges of "marginal" religious sects: the Sabbatean Sect as a case study*

Halim Gençoğlu holds a BA in History from the University of Anatolia, an MA in Musicology from Ege University, both in Turkey, and an MA in Religious Studies from UCT.

Halim Gençoğlu's thesis analyses minority sects in Abrahamic religions, focusing on Sabbateanism in Judaism. It analyses the development of this movement during and after the death of controversial Jewish Rabbi, Shabbetai Tzvi, during the time of the Ottoman Empire. Tzvi attracted many followers. He also received criticism, especially when he converted to Islam. Halim Gençoğlu's thesis analyses how the Sabbatean movement evolved, and what may have urged Tzvi's followers to hide their religious identities. It then compares the movement with other controversial minority sects such as Crypto-Christianity and the Ahmadiyya movement in Islam. The comparison offers insight into the Sabbateans' challenges and why they may

have been labelled as 'heretical' in Jewish, Islamic and Christian societies. Halim Gençoğlu's research findings point to the role of state policies during Ottoman times and also beyond, and to the effects of national and religious structures on the assertion of minority identities.

*Supervisor:* Dr A Reisenberger (School of Languages and Literatures)

*In Library and Information Studies:*  
Patrick Makono Mapulanga  
Thesis Title: *Knowledge translation of health-research findings at the University of Malawi and its relevance in health-policy formulation in Malawi: a study in developing a communication and dissemination strategy to facilitate the use of health-research evidence*

Patrick Mapulanga has BSc (Education) and MLIS degrees, from Mzuzu University (Malawi) and the University of Botswana respectively. His doctorate arose from his work with the Malawi Library and Information Consortium (MALICO) in partnership with the International Network for the Availability of Scientific Publications (INASP).

Patrick Mapulanga's study grew out of a concern that, while much health research has been conducted in developing and developed countries, little is known about how its findings have informed health-policy formulation which is ostensibly its goal. His thesis describes the relationship between health researchers and their findings, on one hand, and, on the other, health-policy makers and health-policy formulation. He outlines the extent to which, and how, both researchers and policy makers in Malawi practice knowledge translation activities so that health-research findings can inform health-policy formulation. His study contributes to INASP's Evidence Informed Policy-making programme for supporting parliaments, governments and public bodies to adapt their institutional processes, policies and behaviours to enable, appraise and use research evidence in policy-making. Based on his findings, Patrick Mapulanga proposes a research

based framework for communicating and disseminating health-research evidence and for facilitating its use in health-policy formulation.

*Supervisor:* Associate Professor J Raju  
(Library & Information Studies Centre)  
*Co-supervisor:* Dr T Matingwina  
(National University of Science and Technology, Zimbabwe)

*In Linguistics:*  
Sambulo Ndlovu  
Thesis Title: *A comparative analysis of metaphorical expressions used by rural and urban Ndebele speakers: the contribution of S'ncamtho*

Sambulo Ndlovu holds a BA and an MA in African Languages, respectively from the Midlands State University and the University of Zimbabwe. Prior to registering for a PhD, he taught sociolinguistics, applied linguistics and culture at Great Zimbabwe University.

Sambulo Ndlovu's thesis focuses on the impact of urban youth languages on base languages. He analyses and characterises S'ncamtho metaphors using a Cognitive frame and measures their spread across population demographics using Social Impact Theory. He found S'ncamtho metaphors to be themed more on social networks than on criminality and as having discernible genres. He uses the metaphors to measure familiarity and usage, finding familiarity and usage more common amongst males than females, amongst youth than adults, in urban high density areas than in low density, peri-urban and rural areas. He attributes these differences to female stigmas relating to S'ncamtho usage and to a modernity common amongst urban youth. He shows too that communication networks impact on the spread of S'ncamtho metaphors and that those frequenting towns tend to be more familiar with them than those who do not. He finds further that, despite the majority of Ndebele speakers' persistent negativity towards it, S'ncamtho operates in some public domains.

*Supervisor:* Dr E Hurst (Humanities Education Development Unit)

*In Media Studies:*

Jaqueline Elizabeth Hiltermann

Thesis Title: *Make yourself at home: networked domestic space, place and narrative in South African everyday life*

Jaqueline Hiltermann holds BA(Hons) and MA degrees in Media & Communication from the University of KwaZulu-Natal. She joined the Centre for Film and Media Studies at UCT in 2012 for her PhD studies.

Jaqueline Hiltermann's thesis explores the complexity of the home. She examines predominantly white middle class arrangements of domestic space and place in South Africa, thereby providing insight into gendered and racialised power dynamics and privilege in everyday life. Jaqueline Hiltermann reveals how Facebook has emerged as a collaborative platform that has opened up the private space of the home, allowing domestic space, place, and practice to steadily gain visibility. Her work reveals that women remain more tightly bound to the home than do men, because of cultural and historical gendered discourses as well as the resurgence of middle class postfeminist narratives of domesticity. She shows that, spurred on by popular media, white middle class women have migrated back to the home, and that economic privilege has allowed them to forego paid employment. In contrast, she shows, black women, employed as domestic workers in those same middle class domestic spaces, are frequently marginalised there from narratives and conversations.

*Supervisor:* A/Professor Marion Walton (Centre for Film and Media Studies)

Travis Miles Noakes

Thesis Title: *Inequality in digital personas – e-portfolio curricula, cultural repertoires and social media*

Travis Noakes completed a BAFA (Honours in Design) at UCT and an MA in Digital Arts at Middlesex University. Having helped design and launch Virgin Life Care (now my.virgininactive.co.za), he enrolled for a PhD in Media Studies.

Despite digital portfolios playing a growing role in supporting

admission to tertiary study and employment for visual creatives, we know very little about how students use their portfolios. Travis Noakes' three-year longitudinal action research project at two Cape Town schools enabled recording and analysis of students' development as visual artists via electronic learning portfolios. His content analysis of 29 e-portfolios reveals contrasting patterns at each site. His cases about twelve young people reveal how their digital personas reflected diverse strategies, capabilities and combinations of capital. He shows that four key dimensions of inequality are evident: opportunities for internet access; connections to the fine arts; negotiating positions; and risks with online visibility. He shows further that privileged teens amplify their symbolic advantages by adding distinctive personas, while marginalised students face many hidden infrastructural and cultural challenges in curating their visual arts student identities. He argues that equitable e-portfolio education must consider these dimensions and the need for decolonisation.

*Supervisor:* Associate Professor M Walton (Centre for Film and Media Studies)

*Co-supervisor:* Professor J Cronje (Cape Peninsula University of Technology)

*In Psychology:*

Jane Frances Kelly

Thesis Title: *Narratives of gang desistance amongst former gang members*

Jane Kelly holds a BSocSc(Hons) in Psychology, and an MA degree in Psychological Research from UCT.

Jane Kelly's thesis focuses on desistance from gang involvement. Drawing on a narrative theoretical framework and the theory of critical realism, and using life history interviews and thematic narrative analysis, her research explores how twelve South African former gang members understand and make sense of their gang desistance. Her findings reveal that they experienced a profound transformation in identity in which they moved away from a hardened, stoic gangster identity and embraced a prosocial identity such as that of a positive role model in the community. This

transformation was a process punctuated by key turning points that prompted active reflection on gang life. Her findings further illustrate that their desistance included forming a purposive intention to change; committing to and maintaining such change – despite challenges; taking personal responsibility for the past; and striving for independence in the future. Importantly, she shows, it also involved actively drawing on protective resources such as meaningful and practical support from loved ones and religious belief systems. Jane Kelly's work illustrates how gang desistance is dependent on the availability of resources within an individual's environment.

*Supervisor:* Professor CL Ward (Psychology)

Alicia Nortje

Thesis Title: *The Butcher, the Baker, the Candlestick Maker: investigating facial recognition for multiple-perpetrator crimes*

Alicia Nortje has a BA from UNISA, BA(Hons) in Psychology and MA (Psychological Research) from UCT.

Eyewitness memory for multiple-perpetrator crimes is understudied despite the prevalence of such crimes worldwide. This neglect presents numerous problems for psychologists, police, and the courts. Alicia Nortje's thesis addresses these difficulties using several approaches. Through a survey of police detectives, she gained insight into how police officers administer lineups in practice. Three laboratory experiments confirmed that memory for faces worsened as participants studied increasing numbers of faces. Furthermore, the ability to pair perpetrator and role was especially vulnerable to the number of faces shown at study. Finally, she built an artificial neural network to provide a computational model of human memory for multiple perpetrators. The model suggests that poor memory performance is due to all associated perpetrators, and their roles, activating when an eyewitness sees any perpetrator who committed the crime. The overall conclusion of this thesis is that eyewitnesses of multiple-perpetrator

crimes are unlikely to recognise all the perpetrators, cannot correctly pair perpetrators with roles, and that police procedure, and the methods used in court to test eyewitness memory must be updated to account for these difficulties.

*Supervisor:* Professor C Tredoux  
(Psychology)  
*Co-supervisor:* Dr A Vredeveltd  
(Vrije Universiteit Amsterdam)

Angeline Veronica Stephens  
Thesis Title: *Black lesbian identities, power and violence in public and private spaces*

Angeline Stephens is a psychologist at a South African university with a diverse student population. She works in the areas of gender, sexuality and identity through psychotherapy, group work, and policy formulation at institutional level.

Angeline Stephens' thesis focuses on the intersections of power and violence in the lives of lesbian women in South Africa. Her research has explored the discursive constructions and material enactments of power and violence. Through an examination of how violence and power is experienced by black lesbian women in communities and in society at large, she shows the link between such violence and power, and she details forms of violence within intimate lesbian relationships. She shows further how discursive constructions and enactments of violence and power are shaped by political and historical contexts. She argues that the notion of citizenship is a salient and contested one in the lives of lesbian women in South Africa since they experience the intersection of power and violence in multiple and changing ways. Accordingly, she avers, forms of power and violence in lesbian lives have to be reconceptualised within a discourse of citizenship.

*Supervisor:* Associate Professor FA Boonzaier (Psychology)

Donne Van Der Westhuizen  
Thesis Title: *The effects of testosterone on embodiment: implications for social power*

Donné van der Westhuizen completed her BSocSc at UCT, and began specialising in the field of Neuropsychology during her master's studies.

Donné van der Westhuizen's thesis follows recent trends in the neurosciences in which the body is seen as a constituting factor in mental experience and behaviour. Her general aim has been to contribute to the literature on the embodied basis of power, and to do so by asking whether a change in the neurochemistry associated with social power has any effect on the representation and experience of the body. She ran three experiments in which participants were administered a single 0.5mg dosage of either testosterone or placebo. She found that testosterone improved the subjects' perception of internal physiological signals, stabilised their thermal regulation under conditions of illusory changes in body ownership, and increased their feeling of being in control of actions. Donné van der Westhuizen's work contributes to our theoretical understanding of power; and it suggests that the motivational impetus for social status might be rooted, from an embodied cognition perspective, in an implicit drive to maintain control of the physical body.

*Supervisor:* Professor M Solms  
(Psychology)  
*Co-supervisor:* Professor J van Honk  
(Utrecht University)

*In Public Administration:*  
\*Yeukai Chido Mukorombindo  
Thesis Title: *Budget and policy planning in devolved Kenya: a case study of citizen participation in Nairobi County*

Yeukai Mukorombindo holds BSocSc and MSocSc degrees in Sociology from Rhodes University. Prior to beginning her doctoral research, she worked as a housing researcher at the Public Service Accountability Monitor in Rhodes University's Department of Journalism.

Yeukai Mukorombindo's thesis focuses on public participation in local

government budget and service-provision planning in Kenya. Recent changes to Kenyan law have devolved considerable autonomy to local/county governments. They have been introduced in order to implement ambitious citizen-participation initiatives. Ms Mukorombindo critically examines the implementation of these new legal provisions by drawing on extensive fieldwork in Nairobi County. She finds, through interviews with government officials, civic groups and other stakeholders, that the aim of citizen empowerment is often thwarted in practice by internal political contestation and a lack of adequate resourcing. She also reports that, despite these constraints, and partly because of them, one now sees increasingly vibrant civil society initiatives working to develop meaningful platforms for citizen engagement in order to improve local public services.

*Supervisor:* Dr V Naidoo  
(Political Studies)

*In Religious Studies:*  
Fuzile Templeton Tahir Sitoto  
Thesis Title: *On Africana/Islamica existential thought: Don Mattera and the question of transcendence*

Fuzile Sitoto holds BSocSc (Hons) and MSocSc degrees from UCT. He also studied at King Saud University (Riyadh, Saudi Arabia), and was a Fulbright Scholar at the State University of New York at Binghamton with Ali Mazrui. He returned to UCT in 2011 while employed as a lecturer at the University of KwaZulu-Natal's School of Religion, Philosophy and Classics.

Fuzile Sitoto's thesis represents the first full length doctoral study on the renowned South African poet, writer and journalist, Don Mattera. In addition to being a poet of note, writer and journalist, Mattera is also known as a resilient activist and one of the critical voices in the Black Consciousness Movement of South Africa. Through an interdisciplinary study that draws on the interface between literature, philosophy and religion, Fuzile Sitoto reimagines black/Africana existential thought and philosophy beyond the memory of suffering and the valorisation of struggle. He pays close



attention to the question of transcendence in Mattera's poetry, fiction and self-understanding. Fuzile Sitoto's thesis puts Mattera in conversation with Africana existential thought, with a particular focus on Black Muslim experience in the United States of America.

*Supervisor:* Professor AI Tayob  
(Religious Studies)

Ra Tiedemann-Nkabinde  
Thesis Title: *The consecration of neoliberalism: Islam, financialisation and the production of symbolic value*

Ra Tiedemann-Nkabinde holds a BA (Hons) and MSc from the School of Oriental and African Studies, University of London, and the University of Oxford.

Ra Tiedemann-Nkabinde's doctoral work focuses on the Islamic finance industry in South Africa and the relationship between religion and market practice. Exploring the interplay between processes of Islamisation and neoliberalisation, he investigates how the practice of Islamic finance was shaped by a neoliberal market logic and by the efforts of Muslim professionals to reconcile their market activities with Islam. Based on fieldwork conducted in Cape Town, Durban and Johannesburg, he discovered and describes the emergence of a new Islamic financial discourse. It is a discourse that not only reveals how Muslim practitioners have mobilised Islamic tropes and ethical idioms found in contemporary expressions of Islamic resurgence to infuse forms of Islamic finance with symbolic value. It is also a discourse revealing how they have consecrated the dominant neoliberal logic that has taken hold of the field of finance. Ra Tiedemann-Nkabinde's findings shed new light on the relationship between religion and financialisation and on how religious ethics are recalibrated to accommodate neoliberalism.

*Supervisor:* Professor AI Tayob  
(Religious Studies)

*In Social Work:*

Ingrid Elizabeth Daniels  
Thesis Title: *An investigation into mental health care deficits in South Africa: exploring an alternative intervention strategy*

Ingrid Daniels holds an MSocSc (Clinical Social Work) from UCT. Her study builds on 35 years' experience as a mental health practitioner, administrator, activist and director of South Africa's oldest non-profit mental health organisation.

Ingrid Daniels' thesis investigates deficits in South African community-based mental health services, from mental health professionals' and mental health-care users' perspectives. It provides empirical evidence identifying service-delivery gaps and barriers limiting access to community-based mental health care. It demonstrates that over-reliance on a bio-medical model of mental health care thwarts goals to meet mental health-care users' needs. It highlights how, despite South Africa's comprehensive National Mental Health Policy Framework and Strategic Plan 2013-2020, mental health care remains fragmented, under-funded and under-resourced; lacks community-based mental health interventions; and excludes mental health care users as significant role-players. Using a human rights and an empowerment framework, Ingrid Daniels proposes a comprehensive, indigenous and integrated community-based mental health intervention model with potential to reach vulnerable South Africans living with mental illness. The model proposes to integrate bio-medical and psycho-social interventions; to ensure that mental health service-users have equitable access to treatment and care within their communities; and to include mental health-service-users in peer interventions alongside traditional and other non-specialists.

*Supervisor:* Dr C O'Brien  
(Social Development)  
*Co-supervisor:* Professor J John-Langba  
(University of Kwa-Zulu Natal)

*In Sociology:*

Isaac Chinyoka  
Thesis Title: *How and why do States provide for children? Comparing social grants to families with children in Southern Africa*

Isaac Chinyoka holds an MSc in Development Studies from the National University of Science and Technology in Zimbabwe. After working for several years for NGOs in Zimbabwe, he began in PhD studies at UCT in 2014. He spent 2016-17 at Yale University, in the USA, as a Fox Fellow.

Isaac Chinyoka's thesis focuses on public provision for children through social assistance programmes in Southern Africa. Focusing on South Africa, Botswana, Namibia and Zimbabwe, he draws on interviews with officials from government and NGOs and on documentary sources to show that 'child welfare regimes' vary in terms of: their overall reach or coverage; their generosity; their legal status and whether they target children who are poor and children who are orphans. Proposing and applying a typology of child welfare regimes, Isaac Chinyoko details provision for children in his four case-study countries; and he explains how and why each country's child welfare regime developed as it did. In doing so, his thesis extends the comparative scholarly literature on welfare regimes with respect to both provision for children and provision in Africa.

*Supervisor:* Professor J Seekings  
(Sociology)  
*Co-supervisor:* Associate Professor E Moore (Sociology)

Simbarashe Gukurume  
Thesis Title: *New Pentecostal Churches, politics and the everyday life of university students at the University of Zimbabwe*

Simbarashe Gukurume holds a BSc and an MSc in Sociology and Social Anthropology from the University of Zimbabwe. In 2014, he joined UCT's Institute for Humanities in Africa (HUMA) and Sociology Department for his PhD studies. Before that he worked as

a lecturer at Great Zimbabwe University.

Simbarashe Gukurume's thesis focuses on the complex intersections between Pentecostal Charismatic Churches (PCCs), politics and university management at the University of Zimbabwe (UZ). His study utilises qualitative ethnographic techniques to examine how these intersections shape student subjectivities and everyday life on campus. The thesis studies the character, attractions and effects of new PCCs at UZ in a context of national political conflict and economic crisis. He shows how PCCs offer imaginative ways of working towards different futures to students who generally face bleak prospects. In the process he demonstrates the extent to which Pentecostal faith permeates every aspect of the university experience for those who subscribe to its tenets, often in direct conflict with the university's culture of learning and knowledge production. Simbarashe Gukurume argues that linkages between faith and university life are influenced by the wider politics of the country, and particularly by the Zimbabwean state's 'capture' of UZ.

*Supervisors:* Dr I van Wyk (Institute for the Humanities in Africa)

*Co-supervisor:* Professor D Posel (Institute for the Humanities in Africa)

Paul Arnold Lundall

Thesis Title: *Coordination of enterprise skill formation: a sociological and historical narrative of professional, market and state initiatives in South Africa*

Paul Lundall holds a BA (Sociology and Economic History) and an MA in Sociology from UCT. He is currently a research consultant who has produced numerous publications and research papers.

Paul Lundall's thesis examines the coordination of skills formation in South Africa from the time the SA mining industry emerged. He finds that skills coordination takes place at the micro, meso, and macro levels with interactions between the private sector, civil society and the state. He shows that the state played a leading but ineffective role up to World War Two and that it thereafter took

a biased racist role, abandoned only during the late apartheid era when the economy suffered skilled labour shortages. He explains that during that time the private sector used training boards to coordinate provision of its required skilled labour. With 1994's political transformation, the state completely redesigned the skills-training system and introduced a compulsory training levy. However, as Paul Lundall shows, the complexity of policy and the tedious funding arrangements led to accumulation of vast unspent funds, impediments to skills training and further reliance on the private sector.

*Supervisor:* Emeritus Professor J Maree (Sociology)

Tafadzwa Mushonga

Thesis Title: *Militarisation of conservation, violence and local people: the case of Sikumi Forest in Zimbabwe*

Tafadzwa Mushonga holds a BSc in Environmental Science from Bindura University, Zimbabwe, and an MSc in Forest and Nature Conservation from Wageningen University, the Netherlands. She joined UCT's Environmental Humanities South Programme in 2015 for her PhD studies.

Tafadzwa Mushonga's thesis examines militarisation and violence in protected areas in Zimbabwe. Showing and analysing how militarised conservation practices unravel, she explains the consequences of such practices and their everyday unravelling on local people. Evidence in her work includes descriptions of the lived experiences of the daily anti-poaching activities of the state paramilitary unit responsible for conservation enforcement in Zimbabwe's protected forests. She observes that, where the militarisation of conservation fails to halt armed poaching activities, it tends to prevent local people's access to resources for their subsistence. She shows that this in turn exposes such people to direct and indirect forms of violence. Her analysis comes to the conclusion that, while the texture and nature of militarisation is context specific, it has far more significant consequences for local people who are dependent for

resources on protected areas than it has on private actors whose motive for accessing forests is commercial gain.

*Supervisor:* Associate Professor Frank Matose (Sociology)

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# FACULTIES OF HEALTH SCIENCES 1 AND LAW

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## ORDER OF PROCEEDINGS

Academic Procession.

*(The congregation is requested to stand as the procession enters the hall)*

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Dedication will be read by a member of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

The Master of Ceremonies will present the Distinguished Teacher Award to Jacqueline Yeats (in absentia).

The Master of Ceremonies will present Graeme Meintjes for the award of a Fellowship.

The graduands and diplomates will be presented to the Presiding Officer by the Deans of the faculties.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall.

*(The congregation is requested to remain standing until the procession has left the hall.)*

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## **DISTINCTIONS IN THE FACULTY OF HEALTH SCIENCES**

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Postgraduate diplomas may be awarded with distinction if the candidate has achieved 70% and above for all courses with a weighted average of at least 75%

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees (by coursework and dissertation) may be awarded with distinction

for the dissertation, where the mark for the dissertation is at least 75%

for the degree, where the weighted average is 75% or better and no component is below 70%

Master's degrees (by dissertation) may be awarded to a candidate who achieves a mark of 75% and above for the dissertation.

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## **DISTINCTIONS IN THE FACULTY OF LAW**

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The Bachelor of Laws may be awarded cum laude where a student has obtained

an average of 70% in all law courses; and

a mark of at least 75% in at least six full law courses or the equivalent.

The Bachelor of Laws may be awarded magna cum laude where a student has obtained

an average of 75% in all law courses; and

a mark of at least 75% in at least nine full law courses or the equivalent.

The Postgraduate Diploma in Law may be awarded with distinction where a student has obtained an average mark of at least 75%.

The Master of Laws or the Master of Philosophy by minor dissertation and coursework may be awarded with distinction in the degree where a student has obtained an average mark of at least 75%.

The Master of Laws or the Master of Philosophy by dissertation may be awarded with distinction in the degree for especially meritorious work.

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## DECLARATION FOR HEALTH SCIENCES GRADUANDS

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**AT THE TIME OF BEING ADMITTED AS A MEMBER OF THE HEALTH PROFESSION:**

I solemnly pledge to serve humanity

My most important considerations will be the health of patients and the health of their communities

I will not permit considerations of age, gender, race, religion, ethnic origin, sexual orientation, disease, disability or any other factor to adversely affect the care I give to patients

I will uphold human rights and civil liberties to advance health, even under threat

I will engage patients and colleagues as partners in healthcare

I will practise my profession with conscience and dignity

I will respect the confidentiality of patients, present or past, living or deceased

I will value research and will be guided in its conduct by the highest ethical standards

I commit myself to lifelong learning

I make these promises solemnly, freely and upon my honour.

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## DISTINGUISHED TEACHER AWARD

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The Distinguished Teacher Award, given once only to an individual, recognises teaching at any or all levels by a member of the faculty that has made a significant and lasting impression on students.

Previous recipients in the Faculty of Law have been:

1982	D B Hutchison (Roman Dutch & Private Law)
1983	D M Davis (Commercial Law)
2005	M Paleker (Private Law)

The following member of the Faculty of Law has been chosen for this award in 2018:

**Associate Professor Jacqueline Yeats**  
**Commercial Law**

A/Professor Jacqueline Yeats lectures in the Department of Commercial Law. She teaches a number of postgraduate courses, although she is best known for the teaching of Corporation Law to the intermediate year LLB class. During her teaching career, Jacqui (as she is affectionately known) has introduced several innovative and pedagogically sound teaching and learning interventions to assist students to grasp course content and to excel in summative and formative assessments.

One of her teaching innovations, intended to enhance and nurture creative legal thinking, student collaboration and peer to peer teaching, is an ‘extra credit’ video clip design project. Using only their mobile phones, legal knowledge and creativity, the LLB Corporation Law class has annually produced original, entertaining and educational video clips which present established legal principles and cases in a completely new light – extending even to dramatic and musical interpretations of technical, complex cases decided more than 50 year ago. Every year the best Law Clips are screened and awarded the floating trophy at a light-hearted ‘Law Oscars’ event. In 2016, inspired by the learning experiences of a deaf student in her LLB class, she conceptualised a project to create a core lexicon of South African sign language terminology for deaf law students. Jacqui states:

‘I observed in class that the content of my lectures was conveyed to [a] student by an interpreter who converted the spoken words into sign language in real time translation. Whilst watching this exchange, I became concerned that there was not adequate legal terminology in the sign language lexicon to properly convey the content and the student and his interpreter confirmed this... I am attempting, as a long to medium-term project, to develop a UCT Law Faculty – based sign language lexicon for deaf LLB students to facilitate their learning experience . . . My objective is that this resource will ultimately be made freely available to all deaf law students in South Africa to assist them with their studies.’

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## **DISTINGUISHED TEACHER AWARD (CONTINUED)**

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Of the many positive student endorsements of Jacqui's teaching, the following encapsulates her attitude and talent as a teacher:

'Jacqui is an amazing lecturer. She has made a subject that I find very dry a lot better than I ever expected it to be. She is relatable, honest and funny. She is also very caring and she makes me feel that she is genuinely concerned with our well-being. I also think that her "Law-Clip" initiative is a fun and innovative way of encouraging students to engage with the course material outside of lectures.'

**NAMES OF  
GRADUANDS/DIPLOMATES**

An asterisk \* denotes that the degree or diploma will be awarded in the absence of the candidate.

A dagger † denotes that the degree will be awarded posthumously.

**1. FACULTY OF  
HEALTH SCIENCES**

*Interim Dean: Professor C Williamson*

Before presenting the graduands, the Interim Dean will invite all graduating students in the Faculty to stand and to make the Faculty Declaration. All members of the congregation who treat or will be treating patients are invited to join in affirming or re-affirming their commitment to ethical patient care.

**POSTGRADUATE DIPLOMA IN  
CHILD CRITICAL CARE NURSING**

\*Lucia Ilica Visagie

**POSTGRADUATE DIPLOMA IN  
CHILD NURSING**

Thandeka Isabella Mtshali  
Pumla Njadayi

**POSTGRADUATE DIPLOMA IN  
CLINICAL PAEDIATRIC  
HAEMATOLOGY AND ONCOLOGY**

\*Lawrence Osei-Tutu

**POSTGRADUATE DIPLOMA  
IN CLINICAL PAEDIATRIC  
PHYSIOTHERAPY**

\*Idah Sendagala

**POSTGRADUATE DIPLOMA  
IN DISABILITY STUDIES**

Ntungufhadzeni Phyllis Mutele  
Kolobe Justice Phukubje

**POSTGRADUATE DIPLOMA IN  
HEALTH ECONOMICS**

\*Antoinette Buhle Ndweni  
\*Mphailele Elsie Tshukudu

**POSTGRADUATE DIPLOMA IN  
HEALTH MANAGEMENT**

Francilene Catherina Baartman  
Matthys Michiel De Vries Basson (with  
distinction)  
Jennifer Florence Coetzee (with  
distinction)  
Siyabonga Diko  
Miladevi Govender  
Motlatsi Elias Motlatso Letshokgohla  
Ramaimane Peter Gifty Maarohanye  
Ruth Sebolaishi Mabyana  
Moroesi Gladys Makhetha  
Cleopatra Nomonde Mbambo  
Leon Mondry  
Patonia Geraldine Olckers  
Fatima Peters  
Bonginkosi Iron Shongwe

**POSTGRADUATE DIPLOMA  
IN HEALTHCARE TECHNOLOGY  
MANAGEMENT**

Kagiso Patrick Kobe  
\*Emmanuel Bernard Massawe  
Patience Zamantungwa Moabi

**POSTGRADUATE DIPLOMA  
IN NEPHROLOGY NURSING**

\*Bonita Rochell Brown  
Thembela Brian Mlaba

**POSTGRADUATE DIPLOMA  
IN PALLIATIVE MEDICINE**

\*Jolanna Hughes  
\*Olusesan Bolorunduro Ibitomi

**2. FACULTY OF LAW**

*Acting Dean: Professor H Corder*

**POSTGRADUATE DIPLOMA IN LAW**

*In Employment Law & Social Security:*  
Ntsikelelo Gladman Kulati

*In Environmental Law:*

\*Achmad Bassier  
\*Jason Sam Liebenberg  
Zandiswa Qoma

**DEGREE OF BACHELOR OF LAWS**

Layla Adams  
Molly Chandawira  
Nomvelo Thandokuhle Kunene  
\*Jocelyn Jade Lawrence  
Justin Earl Minnaar  
Zinhle Novazi  
Farah Sheik  
\*Sikhangezile Sibanda

**DEGREE OF MASTER OF LAWS**

Frances Meg Sefton Barker  
\*Falko Brüggemann  
\*John-Patrick Scherer  
\*Mobobola Tenibiaje  
Nicole Ada Williamson  
Nheoma Eme Worugji

*In Commercial Law:*

\*Aisha Adam  
\*Katy May Bolton  
Dumisani Gumbi  
Andreas Tsangarakis  
\*Tim Witten (with distinction)

*In Comparative Law in Africa:*

\*Gloria Paidamoyo Chikaonda

*In Constitutional and  
Administrative Law:*

\*Pia Annika Lange  
Susan Smit

*In Criminology, Law and Society:*

Florencia Bengolea  
Kameshwhri Moonsamy  
\*Nicole van Zyl



*In Dispute Resolution:*

Felicia Enoch Ikpokonte (with distinction)  
Julius Moerder  
Robert Stewart Watson

*In Environmental Law:*

\*Oluwatoyin Oluwaseyi Ebenezer  
\*Ida-Maria Herdieckerhoff  
\*Tobias Maximilian Hagen Lang (with distinction)  
\*Zuzana Selementova

*In Human Rights Law:*

\*Simone Jacqueline Gray  
Thomas Montague Harris  
\*Kerstin Louisa Charlotte Rohsnick  
\*Cecile Naa Afi Sackeyfo

*In Intellectual Property Law:*

Azola Siphe Futshane  
\*Pascale Hoareau  
\*Gustav Loubser  
Felix Julien Pinkepank

*In International Law:*

Monalisa Nyasha Magwenzi  
\*Walter Mandela  
\*Isabelle Sauriol-Nadeau  
Amy Laura Sinclair  
\*Fabian Stoesser  
\*Jonas Turkis

*In International Taxation:*

Rui De Almeida Carvalho  
Ashley Keith Oliver  
\*Moegamat Waleed Sahabodien

*In International Trade Law:*

Pius Ilende Iikwambi  
\*Mirco Idir Alexander Sedki

*In Labour Law:*

Sabieha Chayya

*In Marine and Environmental Law:*

Tandiswa Cordelia Jacobs  
Alecia Genise Moodley

*In Private Law:*

\*Elizabeth Briers Destadler (with distinction)  
Laura-Anne Wilson (with distinction)

*In Private Law and Human Rights:*

\*Kelly Cowell  
Zia-Ul-Haq Faizal Haffejee  
\*Hendrik Johannes Roux

*In Public Law:*

\*Alicia Allison  
\*Justin William Jaftha  
\*Oliver John King  
Kiegen Gregory Louw  
Nolundi Ruth Luwaya  
Cosmo Pahlahle Mapitsa  
Raymond Sorrel Suttner

*In Shipping Law:*

Sohana Goordeen

DEGREE OF MASTER OF LAWS IN  
COMMERCIAL LAW

Antoinette Lourens  
\*Bukale Joana Muzamba  
Shekutaamba Mateus Nepembe  
\*Mawande Samantha Zwane

DEGREE OF MASTER OF LAWS IN  
DISPUTE RESOLUTION

Carolina Harbs  
Macdonald Qondiso Mooi  
Mthetheleli Patrick Them bani  
\*Ncumisa Happiness Willie

DEGREE OF MASTER OF LAWS IN  
ENVIRONMENTAL LAW

Stefan Paul Engelbrecht

DEGREE OF MASTER OF LAWS IN  
PRIVATE LAW AND HUMAN RIGHTS

\*Rumbani Macpherson Jere

DEGREE OF MASTER OF LAWS  
IN SHIPPING LAW

Aviv Levi  
\*Nkanyezi Mpumelelo Myeni

DEGREE OF MASTER  
OF PHILOSOPHY

*In Criminology, Law and Society:*

Olga Irena Biegus  
\*Besir Suleyman Oz  
Mireille Mary Wenger

*In Human Rights Law:*

Sarah Ashleigh Child  
Harveen Kaur Hans

*In Labour Law:*

Tsepang Maretsepile Lesia

*In Public Law:*

\*Trevor Richard Corbett

*In Shipping Law:*

Lauren Anne Lawson

*In Tax Law:*

†Donovan Andrew Alexander

### 3. FACULTY OF HEALTH SCIENCES

*Interim Dean: Professor C Williamson*

#### DEGREE OF MASTER OF MEDICINE

*In Anaesthesia:*

\*Samantha Claudine Adams (with distinction in the dissertation)  
\*Etienne Coetzee  
Lauren Dawn Dougall  
Nicole Lucy Fernandes (with distinction in the dissertation)  
\*Ruchi Lawrie  
\*Elmari Neethling (with distinction in the dissertation)  
\*Reuben Nathanael Smith  
Karen Joan Van Der Spuy (with distinction in the dissertation)

*In Anatomical Pathology:*

\*Dharshnee Rama Chetty (with distinction in the dissertation)

*In Clinical Pharmacology:*

Ismaeel Ebrahim

*In Dermatology:*

\*Louis Jean Fick  
\*Katherine Patricia York

*In Emergency Medicine:*

\*Bojana Bulajic  
\*Sian Geraty  
Crispin Ngoy Kibamba  
Sithembile Mtombeni

\*Candice Anne Van Koningsbruggen  
(with distinction in the  
dissertation)

\*Jacobus Gideon Gous Wiese (with  
distinction in the dissertation)

*In Family Medicine:*

Lorna Young McCrindle  
Nicole Anne Snyders (with distinction  
in the dissertation)

*In Haematological Pathology:*

\*Anna Julia Koller

*In Medicine:*

Zibya Barday (with distinction in the  
dissertation)  
Jean Paul Muzemb Kanyik  
\*David Sifiso Masuku  
\*Jonathan Michael Naude (with  
distinction in the dissertation)

*In Microbiological Pathology:*

Chad Marc Centner (with distinction in  
the dissertation)

*In Nuclear Medicine:*

Sofiullah Olayinka Abubakar

*In Obstetrics & Gynaecology:*

\*Barend Hendrik Jacobus Botha (with  
distinction in the dissertation)  
\*Kate Melanie Chambers  
Nyatozi Leah Chirwa  
Khatija Hoosen Jagot (with distinction  
in the dissertation)  
Vakil Kumar Leelodharry  
Molatelso Linneth Moshokwa  
Peloentle Pheto  
Amaal Schroeder  
Eben Kruger Venter (with distinction in  
the dissertation)  
\*Mareli Venter (with distinction in the  
dissertation)

*In Occupational Medicine:*

Faisal Mubarak Salim Al Badri (with  
distinction in the dissertation)  
\*Nicholas van de Water (with distinction  
in the dissertation)

*In Ophthalmology:*

\*Ingrid Daniela Coetzee  
\*Daemon Bruce McClunan (with  
distinction in the dissertation)

*In Orthopaedic Surgery:*

\*Neil Kruger (with distinction in the  
dissertation)  
Timothy Richard Sluis-Cremer (with  
distinction in the dissertation)

*In Paediatric Surgery:*

Babalwa Bukeka Nondela (with  
distinction in the dissertation)

*In Paediatrics:*

Sa-Eeda Chippendale  
\*Adriaan David Daniels  
\*Lesley Jill Hendricks  
Pamela Rudo Machingaidze  
\*Alastair Kenneth McAlpine  
\*Ben van Stormbroek (with distinction in  
the dissertation)

*In Plastic & Reconstructive Surgery:*

Elizabeth Alexia Xoagus

*In Psychiatry:*

Bhaskaran Nathamaniar Charles  
\*Nisaar Ahmed Dawood  
Koketso Moloto  
Michelle Vlok-Barnard (with  
distinction in the dissertation)

*In Public Health Medicine:*

\*Vasiliki Vicky Grace Labadarios

*In Radiology:*

Erhardt Gerber  
Tamiya Nair  
Raksha Ramlakhan (with distinction in  
the dissertation)  
Lauren Ashley Raubenheimer (with  
distinction in the dissertation)  
Lisel Verena Richter-Joubert

*In Surgery:*

\*Nkhabe Chinyepi  
\*Anna Claudia Coccia  
Angela June Dell  
Miriam Kahn (with distinction in the  
dissertation)  
\*Keno Neil Mentor  
Colin Byron Noel  
\*Richard Spence  
\*Tirsa Van Wyngaard

DEGREE OF MASTER OF NURSING  
IN CHILD NURSING

Beatrix Callard (with distinction)  
Thobeka Oriena Duma

Cecilene Mary Mentoor  
Evelyne Muthoni Mvungu  
Virginia Wangui Ngugi

DEGREE OF MASTER  
OF PHILOSOPHY

*In Advanced Hepatology  
& Transplantation:*

Neliswa Antonia Gogela

*In Biomedical Forensic Science:*

Chante du Toit (with distinction in the  
coursework component)  
Chandra Longden-Thurgood  
\*Tinotenda Agnes Tiffany Majero  
Meryl June Patience  
Gavin Andrew Pharo (with distinction  
in the coursework component)  
Devin Michael Vincent  
Loyiso Abongile Marvin Vuko  
Mariana Winterbach (with distinction)

*In Clinical Research Administration:*

Rene Tina Goliath

*In Disability Studies:*

Jane Anne Harrison (with distinction)  
Marlene Francis le Roux  
\*Rachael Wachera Wanjagwa

*In Exercise and Sports Physiotherapy:*

\*Daniel James Garnett  
Dina Atieno Kgekong  
Sarah Ann Language

*In Health Sciences Education:*

\*Aye Aye Khine Wamono

*In Liaison Mental Health:*

Deirdre Ilse Pieterse

*In Maternal & Child Health:*

\*Elsa Semere Araya  
\*Soad Ahmed Mohamed Jubr  
Chiyembekezo Kachimanga  
Bupe Mwamba  
Robert Shea

*In Neonatology:*

\*Naana Ayiwa Wireko Brobby

*In Paediatric Cardiology:*

\*Fenny Fiindje Shidhika

*In Paediatric Critical Care:*

Kaiser Fitzwanga

*In Paediatric Gastroenterology:*

\*Sawsan Abdelmoneim Yassin

*In Paediatric Neurology:*

\*Charles Kumi Hammond

*In Paediatric Pulmonology:*

Adaeze Chikaodinaka Ayuk (with distinction in the dissertation)

\*Diana Mwendwa Marangu

*In Palliative Medicine:*

Alex Jackson Chitani

\*Johanna Fourie (with distinction in the coursework component)

\*Hilary Grey

Joy Hunter

\*Walter Obal Ochan

\*Shannon Odell

\*Abidemi Olawumi Oladoyinbo

*In Sport & Exercise Medicine:*

Thomas Frederik Swart

DEGREE OF MASTER OF  
PHILOSOPHY IN ALLERGOLOGY

Tshegofatso Mabelane (with distinction in the dissertation)

DEGREE OF MASTER OF  
PHILOSOPHY IN EMERGENCY  
MEDICINE

*In Clinical Emergency Medicine:*

\*Diane Inge Laatz

DEGREE OF MASTER OF  
PHILOSOPHY IN HEALTH  
INNOVATION

Christopher Tarumbidzwa Mutswangwa

Anastacia Nonkululeko Nyathi (with distinction in the dissertation)

DEGREE OF MASTER  
OF PUBLIC HEALTH

\*Kayla Blackburn

\*Anna Jane Hamilton Brown (with distinction in the dissertation)

Katrina Jo Downing (with distinction)

Lara Stephanie Erlank (with distinction in the dissertation)

Enock Havyarimana (with distinction in the dissertation)

Fiona Mendelson

Prudence Muusha

Chukwudi Arnest Nnaji (with distinction)

Chongo Irene Mutale Nyoni

Bonolo Anita Pududu (with distinction in the dissertation)

*In Clinical Research:*

Ayanda Gcelu

*In Community Eye Health:*

Kanasa Nkanza Kabaso (with distinction in the dissertation)

Eric Celestine Ndaule

\*Selassie Tagoh

*In Epidemiology:*

Kim Anderson (with distinction)

Karryn Leigh Brown (with distinction in the coursework component)

Emma Claire Carkeek (with distinction)

\*Rachel Tal Esra (with distinction)

\*Jonathan George Euvrard

Rajab Menyha Kakaire

Emma Kate Kalk (with distinction)

\*Kathryn Manning

Phepo Lekubu Mogoba (with distinction in the dissertation)

Pearl Naledi Monate

Jenna Leah Oosthuizen (with distinction)

\*Alexander Perez (with distinction)

Nicola Stephanie Steinhaus (with distinction)

Lisa Helen Telford (with distinction)

\*David Wolfer (with distinction in the coursework component)

*In Health Economics:*

\*James Craig Brown

\*Masimba Dube (with distinction in the dissertation)

Assegid Getahun Hellebo (with distinction in the dissertation)

Angela Wairimu Kairu

Aseye Eyram Afi Kpodotsi

\*Oyeleke Anu Oyebamiji

*In Health Systems:*

Nina Thandi Abrahams (with distinction in the coursework component)

Lara Atalie Court (with distinction)

Amanda Jane Edwards (with distinction)

Natasha Esau

\*Naomi Karen Kayesa (with distinction in the dissertation)

\*Lance Lyle Louskieter

Dineo Kwena Maitisa (with distinction in the dissertation)

Chelsea Lee van Wyk

*In Social & Behavioural Sciences:*

Kirsty Ann Gilmour (with distinction)

\*Ingebjørg Breivik Lingaas

DEGREE OF MASTER OF SCIENCE  
IN AUDIOLOGY

Zenzo Stanford Chakara

Mukovhe Phanguphangu

DEGREE OF MASTER OF SCIENCE  
IN BIOMEDICAL ENGINEERING

Scott Pierre Bruton (with distinction)

\*Alastair Blaine During (with distinction)

\*Brian Ingasia Lugadilu

Munyaradzi Thembanani Matose

Jerry Sam (with distinction)

\*Werner Heinrich Stoltz (with distinction)

Seth Mkhanyisi Thompson

\*Willem Johannes van den Bergh (with distinction)

\*Jacobus Johannes Verster

DEGREE OF MASTER OF SCIENCE  
IN EXERCISE AND SPORTS  
PHYSIOTHERAPY

\*Amy Renell Burger

DEGREE OF MASTER OF  
SCIENCE IN MEDICINE

*In Anatomy:*

Liesl Margo Arendse

Elizabeth Sarah Dinkele (with distinction)

<i>In Bioinformatics:</i> Moussa Djimde (with distinction) Javan Ochieng Okendo (with distinction)	*Hendrina Mwiwete Nelao Shipanga Sylvia Dominique Ujma (with distinction)	Taryn Lynne du Toit (with distinction) Jessica Tamryn Ferguson
<i>In Biomaterials:</i> Emma Doubell (with distinction) Rumbidzai Damita Zireva (with distinction in the dissertation)	<i>In Medical Cell Biology:</i> *Alice Clare Brown	DEGREE OF MASTER OF SCIENCE IN PHYSIOTHERAPY
<i>In Biomedical Engineering:</i> *Yasheen Brijlal	<i>In Medical Microbiology:</i> Yonas Tesfagabir Ghebrekristos (with distinction)	Faiza Achmat *Sarah Anne Cameron (with distinction) *Roche Crafford Maxwell Katleho Limakatso Sara Lee van Velze
<i>In Chemical Biology:</i> Marine Barnabe (with distinction)	<i>In Medical Virology:</i> Deelan Sudhir Doolabh (with distinction) *Kopano Valerie Masete (with distinction)	DEGREE OF MASTER OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY
<i>In Chemical Pathology:</i> *Patrick Kofi Dzigbodi Diaba-Nuhoho Antony Morwamoche Rapulana	<i>In Medicine:</i> Marlyn Collin Faure Kate Elisabeth McMullen (with distinction)	Salma Higgs
<i>In Clinical Pharmacology:</i> *Michiel Johannes Smit (with distinction)	<i>In Neurosciences:</i> Kira Michaela Düsterwald (with distinction) Aubrey Jonathan Kumm (with distinction) Marisa Viljoen	<b>4. FACULTY OF LAW</b>  <i>Acting Dean: Professor H Corder</i>
<i>In Clinical Science and Immunology:</i> *Fatuma Hassan Guled *Brittany-Amber Jacobs Stefanus Petrus Rautenbach	<i>In Paediatrics:</i> *Natasha Lee North (with distinction) *Rebecca Yael Nthabiseng Sher	DEGREE OF DOCTOR OF PHILOSOPHY
<i>In Dietetics:</i> Marieke Theron	<i>In Physiology:</i> Hamida Abdalla Aboalgasm (with distinction) Rachel Christy Reid Bean (with distinction)	<i>In Criminology:</i> Gráinne Sharon Perkins Thesis Title: <i>Danger and death: organisational and occupational responses to the murder of police in South Africa – a case study</i>
<i>In Emergency Medicine:</i> *Bridget Catherine Hamilton Griffith (with distinction) *Paul Kim *Heinrich Johannes Weeber (with distinction in the dissertation)	<i>In Sports Injuries:</i> *Jordy Anterio de Roos	Gráinne Perkins holds a BSc (Hons) in Zoology from University College Dublin, an MSc in Criminology from Queen's University Belfast and an MPA from the University of Ulster. Gráinne spent 15 years in the Irish police service as a detective sergeant with Interpol before registering for her PhD in 2014. Gráinne Perkins' thesis focuses on the high rates of murders of members of the South African Police Service (SAPS). Her research explored perceptions and experiences of danger and death, and responses to such danger. She reviewed the murder investigation files of officers killed between 2002 and 2014 and undertook 900 hours of field work with three different police units deployed in a high-crime Cape Town township. Gráinne's Perkins' research findings speak to the administrative,
<i>In Exercise Science:</i> Justin John Durandt (with distinction) *Jarred Lee Marsh *Jason Mark Wulfsohn	<i>In Trichology &amp; Cosmetic Science:</i> Sian-Ailin da Silva (with distinction) Magee Ernest Mabotha	
<i>In Haematology:</i> Beatrice Relebogile Ramorola	DEGREE OF MASTER OF SCIENCE IN NURSING	
<i>In Human Genetics:</i> Zinhle Andile Cindi Hannah-Ruth Engelbrecht (with distinction) Jonathan James Evans (with distinction) Noluthando Rearabetswe Manyisa	Briony Caroline Berning (with distinction)	
<i>In Medical Biochemistry:</i> *Angela Mary Kirykwicz (with distinction) Bahiah Meyer	DEGREE OF MASTER OF SCIENCE IN OCCUPATIONAL THERAPY  Shanay Davidson	

material, social and symbolic dimensions of danger. Responses to danger, she argues, can be categorised as either organisational (formal) or occupational (informal). She shows that the relationship between formal and informal responses to danger and death is complex rather than straightforward; and that her research suggests that approaches to improving officer safety in order to reduce police deaths must be multifaceted and must speak to both organisational and occupational understandings of danger and death.

*Supervisor:* Professor E van der Spuy  
(Public Law)

*Co-supervisor:* Dr K Moulton (Public Law)

*In Public Law:*

Olubunmi Ayodele Afinowi

*Thesis Title: An outline and critical assessment of the role of planning laws in the regulatory framework of climate change adaptation in South Africa and Nigeria*

Olubunmi Afinowi holds a bachelor's degree in Law from Obafemi Awolowo University Ile-Ife and a master's degree from the University of Lagos where she has been an academic since 2010. She undertook research about Natural Resource Conservation, Land Use Planning Law and Law of the Sea before beginning her PhD in 2015.

Olubunmi Afinowi's thesis examines planning laws in Nigeria and South Africa and the extent to which these laws address the need to adapt to climate change. Her research data include results of an empirical study survey in both countries that investigated the roles that planning legislation plays in climate-change adaptation. In her thesis she examines the extent to which inter-governmental relationships in planning, in both countries, can aid adaptation to climate change. She analyses the concept of multi-level governance to climate-change adaptation in order to assess the applicability and effectiveness of planning legislation in climate-change adaptation. She also examines traditional planning systems in both countries and how these might be used to promote community based planning. Her research highlights the role of planning at the

local government level in climate-change adaptation. It also iterates the need to strengthen local governments in Nigeria to facilitate development and climate-change adaptation.

*Supervisor:* Professor J Glazewski  
(Public Law)

*Co-supervisor:* A/Professor G Ziervogel  
(Environmental and Geographical Science)

\*Mohamed Paleker

*Thesis Title: The re-engineering of South African small claims courts*

Mohamed Paleker holds BA, LLB and LLM degrees from UCT. Before joining the university's Department of Private Law, he practised as an attorney of the High Court of South Africa.

Mohamed Paleker's thesis argues for the retention and reform of South Africa's small claims courts. In it he challenges the original conceptualisation of the courts in 1985 and explains why it is necessary to reimagine the courts to meet contemporary access to justice challenges. Aspects of the courts that Mohamed Paleker has covered in his thesis include: the management of the courts; the recruitment and qualifications of presiding officers; the rules of jurisdiction and locus standi; the processes and procedures of the courts; and the potential for introducing alternative dispute resolution (mediation). He makes concrete suggestions for legislative amendments to the Small Claims Courts Act 61 of 1984 and the Rules Regulating Matters in Respect of Small Claims Courts (GN R1893 in GG 9909 of 30 August 1985 as amended by GN R851 in GG 13178 of 19 April 1991).

*Supervisor:* Professor PJ Schwikkard  
(Public Law)

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# FACULTY OF COMMERCE

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## ORDER OF PROCEEDINGS

Academic Procession.

*(The congregation is requested to stand as the procession enters the hall)*

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Statement of Dedication will be read by a representative of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

Award of the President of Convocation Medal to Professor Pumla Gqola, Fort Hare.

The Master of Ceremonies will introduce the guest speaker.

Address by the guest speaker.

The graduands and diplomates will be presented to the Presiding Officer by the Dean of the Faculty of Commerce.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall.

*(The congregation is requested to remain standing until the procession has left the hall.)*

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## **DISTINCTIONS IN THE FACULTY OF COMMERCE**

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The BCom and BBusSc degrees may be awarded with distinction

in a subject, where the student achieves a weighted average of at least 75% in a group of courses in, or related to, that subject (in some cases the average mark required is 80%)

in the degree, where the student achieves a weighted average of 80% in all courses.

Honours degrees are awarded by class of pass (first, second class division one, second class division two, or third).

Master's degrees may be awarded with distinction

for the dissertation, (in a coursework and dissertation curriculum) for especially meritorious work, the dissertation being in the first class (at least 75%) and at least 70% for the coursework depending on the degree.

in the degree, for especially meritorious work, where the average is at least 75% and no component is below 70%.

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## **CONVOCATION MEDAL**

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The President of Convocation Medal is awarded annually to an alumnus or alumna who has made a significant contribution to the common good.

### **Professor Pumla Dineo Gqola**

Professor Pumla Dineo Gqola is Dean of Research at the University of Fort Hare, prior to this she served at the Wits University as Professor, Department of African Literature, School of Literature, Language and Media.

She holds a DPhil (magna cum laude) Ludwig-Maxmilians-Universität München; MA (Research) UCT; MA (cum laude; Colonial and Postcolonial Literature) University of Warwick; BA (Hons) in English Studies UCT; BA in English and History UCT.

Professor Gqola's work is intersectional, transdisciplinary, transformative and healing and combines academic rigour and praxis to produce exemplary scholarship. She addresses oppressive systems that have tormented and attacked Black people and Black women in particular.

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**NAMES OF  
GRADUANDS/DIPLOMATES**

\*An asterisk denotes that the degree or diploma will be awarded in the absence of the candidate.

**FACULTY OF COMMERCE**

*Dean: Professor L Ronnie*

**ADVANCED DIPLOMA  
IN ACCOUNTING**

\*Kristof Shilongo Amukoshi

**ADVANCED DIPLOMA IN BUSINESS  
PROJECT MANAGEMENT**

\*Kenneth Cecil Angula  
Tshiya Batubenge  
Ramona Antonnette David  
\*Sarah Lisle De Beyer  
\*Ryan Marc Rousseau De Lisle  
\*Jan Bernardus Christoffel Faber  
Mark Freswick  
Melissa Jane Hoole  
\*Jonas Kanyenda  
Mpho Hilda Kgwadi  
Masala Mabasha  
\*Tendai Moyo Makwabarara  
Thulane Knowledge Mashaba  
Zimasa Nicolette Mbuku  
\*Shakeel Meyer  
\*Thabo Oscar Sithole

**POSTGRADUATE DIPLOMA  
IN ACCOUNTING**

Sherwyn Fredrick de Kock  
\*Qaiya Siphosethu Kobese  
\*Mareka George Montjane  
\*Albert Nicolas Mugisha

**POSTGRADUATE DIPLOMA  
IN ACTUARIAL SCIENCE**

\*Zandile Gobe

**POSTGRADUATE DIPLOMA IN  
BUSINESS ADMINISTRATION**

Molefi Hlalele

**POSTGRADUATE DIPLOMA  
IN DEVELOPMENT POLICY  
AND PRACTICE**

Gaybon Sibonile Simon Khoza  
\*Edward Jabulani Ngcobo  
\*Minenhle Mac Ngwenya  
\*Grace Achola Wandera

**POSTGRADUATE DIPLOMA IN  
MANAGEMENT**

*In Actuarial Science:*  
Simukai Tapiwa Gwata

*In Computer Forensics:*  
\*Michael Odidi

**POSTGRADUATE DIPLOMA  
IN MANAGEMENT IN BUSINESS  
COMMUNICATION**

Imogen Helen Searra

**POSTGRADUATE DIPLOMA  
IN MANAGEMENT IN  
ENTREPRENEURSHIP**

\*Shih-Hsun Chin  
\*Jonathan Peter De Kock  
\*Nicolas Jordie Lambert  
\*Theko Makhoalibe  
\*Charne Estelle Minnaar  
Shane Stephen James Riffel  
\*Daniel Nelson Smith  
\*Kenyan Georgia Smith

**POSTGRADUATE DIPLOMA IN  
MANAGEMENT IN MARKETING**

Lelani Adam  
Kate-Lyne Ashton  
Mohamed Azhar Hoosain  
Julian Jacobs  
Ella Kabambe  
Taeah Kim  
\*Pamela Ambroce Lugenge  
Minenhle Mbhele  
\*Nozintombi Miya

\*Thandolwenkosi Marcia Mketsu  
Concillia Hleziphi Mpofu  
Elia Nghifikwa  
\*Duncan Wade Patrick  
Ipeleng Emma Penyenye  
Conrad Charles Roselt  
\*Shree Nishan Singh

**POSTGRADUATE DIPLOMA IN  
MANAGEMENT PRACTICE**

Marco Alfino  
Enoch Kwesi Amoako  
Joao Bil Da Silva Andrade  
Maipelo Bakani (with distinction)  
Nazlie Basson  
\*Rose Lilia Ellen Blackie (with  
distinction)  
Seth Julian Burjins  
\*Judith Chamboko  
Bwalya Silwizya Chintu  
Joanne Coetzee  
Ryan De Klerk  
Ismail Hoosen Dhorat (with distinction)  
Natasha Yolanda Douglas  
Janine Michelle Downes  
Heinrich George Erasmus (with  
distinction)  
Phaustina Faisal  
Simone Franks  
Kumaran Govindsamy  
\*Renee Vivienne Graig  
Samuel Paul Johnson  
Nalini Kamal  
Joyce Wangari Kanyoko  
Gideon Myron Kaufmann  
Vivette Louw  
Sophia Mahwibila  
Chawapiwa Mpopi Manama  
Mbali Ntombikayise Bongiwe Maseko  
Natasha Janine Mc Mahon (with  
distinction)  
\*Thaamier Misbach  
Machuene Nelly Machuene Miya  
Nthabiseng Mnikina (with distinction)  
Kim Celeste Morkel  
Jessica Janine Muller  
Pierre Muller (with distinction)  
Valery Akinyi Nandi (with distinction)  
Salomey Sarah Adei Neequaye  
\*Morne Nel (with distinction)  
Vivian Sibongile Ngalo  
Dianne Patience Nxumalo-Kohler  
Damaris Moraa Oanda  
Laban Makiya Omangi  
Laetitia Rassios  
Mogamat Shamiel Salie



\*Dylan Scullard  
 \*John William Smit  
 Moses Kakraba-Kwao Spencer  
 \*Titus Kipkorir Sum (with distinction)  
 Patra Abraham Sumari  
 Jamie-Lee Swarts  
 Fenny Nangula Tjiriange  
 Rick-Ashley Gosciuous George Tjombe  
 Alice Elizabeth Van Biljon  
 Gerrit Alexander Van Velze  
 Grant Alastair Young

POSTGRADUATE DIPLOMA  
 IN SURVEY DATA ANALYSIS  
 FOR DEVELOPMENT

Mmamotshetshi Phinah Kgafela

DEGREE OF BACHELOR OF  
 COMMERCE IN  
 ACTUARIAL SCIENCE

Chanelle Appasamy  
 \*Natan Brittz  
 Naeem Davis (with distinction in  
 Statistics and the degree with  
 distinction)  
 Kaylah Eisenstein (with distinction in  
 Statistics and the degree with  
 distinction)  
 Yonela Ford  
 Avreyna Kistensamy  
 Stephanie Latchmanan  
 Lungelo Mdunge  
 \*Richard Jonathan Montgomery  
 Akshay Rampersad  
 Qianxian Song  
 Ishrat Undre  
 Aimee Beth Van Gensen

DEGREE OF BACHELOR  
 OF COMMERCE

\*Sufyaan Saad Salim Altalib (with  
 distinction in Financial Reporting)  
 Aaliyah Keisha Bhagaloo  
 Lara Paige Blanckensee  
 Anesu-Tendesai Tabeth Chikumba  
 Rutendo Vivian Chingosho  
 \*Jennifer Helen Cleary  
 Joshua Da Costa  
 \*Benjamin Mark Dovey  
 Tinuke Nomonde Eboka  
 Mathew Dane Elvin-Jensen  
 Moeggammam Ameer Esterhuizen  
 Justin Govender  
 Viashin Govender

\*Rupert Andrew David Hickman  
 Joshua James Jameson  
 \*Ji Hoon Kang  
 Nafeesah Karstens  
 Carmelle Kayombo Kashala  
 Tebalelo Kekana  
 \*Min Kyung Kim  
 Candice Jade King  
 \*Sithasibanzi Khuselwa Kondleka  
 Devon Ann Powell Krantz  
 \*Seung Hoon Lee  
 Sieraaj Leeman  
 Linda Mabandla  
 \*Vanessa Takudzwa Machingauta  
 Ruhi Maharaj  
 \*Shaarad Pravin Maharaj  
 David Macharia Mahinda  
 Mologadi Mahlase  
 \*Danyaal Mahomed Munshi  
 Siphokazi Majambe  
 \*George Mamvura  
 \*Natalie Tariro Chido Mangondo  
 \*Bheki Mashaba  
 Sello Patrick Matlawa  
 Thato Amanda Moeletsi  
 Tumelo Omphile Mokgethi  
 Masupha David Molapo  
 \*Mandisi Lizo Ncapai  
 Nzuzo Mvelo Ndwandwe  
 \*Robert John Frederick Newby  
 \*Keyoolin Padayachee  
 Prasanthie Pillay  
 Sarah Paul Pima  
 Stephanie Anne Polkinghorne  
 Saiyantha Reddy  
 Shayne Mathew Rhoda  
 Erich Sean Declan Khotso Schwager  
 \*Louise Jessica Temple  
 Vaisakh Thomas  
 Igobe Vaka  
 Johannes Roeland Valentijn Westerveld  
 \*Jillian Yueyi Yu

DEGREE OF BACHELOR  
 OF BUSINESS SCIENCE IN  
 ACTUARIAL SCIENCE

Jonathan Marc Black  
 Marvelous Mubenesha  
 \*Travis Ashcraft Pears

DEGREE OF BACHELOR  
 OF BUSINESS SCIENCE

\*Cameron Gary Collum  
 Dillon Herbst  
 Fanele Sinabo Hlakanyana

Nhlanhla Brain Nhlangothi  
 \*Sian Ruth Owen  
 Matthew John Slater  
 Panayiotis Ioannou Stavrinou

DEGREE OF BACHELOR  
 OF COMMERCE HONOURS

*In Accounting:*  
 Palesa Raisibe Maitisa

*In Actuarial Science:*  
 Gugulethu Mary-Anne Ngwenya  
 Kgothatso Thantsha

*In Economics:*  
 Thaabit Boltman  
 \*Aidan Victor Giger  
 Ndashe Nyanja Musonda

*In Financial Analysis &  
 Portfolio Management:*  
 \*Tom Burdorf  
 \*Taona Quinton Chadhliwa  
 \*Munashe Blessing Chateya  
 \*Vonriette Ruvimbo Shamiso Chigumba  
 \*Andreas Oliver Cross  
 \*Sean David Culverwell  
 \*Carig Evans  
 \*Franz Joseph Gmeiner  
 Ielhaam Isaacs  
 \*Kylie Ashton Janse Van Vuuren  
 \*Nailantei Kamothon  
 Siviwe Sean Kupiso  
 Jonathan Ross Liebenberg (first class)  
 \*David Paul Maasch  
 Tinyiko Mabunda  
 \*Qaqamba Sipiwe Mgiijima  
 Portia Nontuthuzelo Mjulen  
 Mmamokgopane Ntando Moku  
 \*Simphiwe Msibi  
 \*Matthew Nicholas Norris  
 \*Mufasal Parker  
 \*Olebogeng-Osiame Peele  
 Ian Oliver Samuels  
 Kim Schanz  
 Brandon Leigh Smith  
 Adrian Louis Storm  
 Agrippa Stulumani  
 \*Matsepe Modikeng Theodore Tsiu  
 Ana-Lisa Martins Ventura  
 \*Sheri-Lee Winik  
 Spiridon George Zaverdinos (first class)

*In Information Systems:*  
 Samkelo Lutho Boo  
 Aviwe Menze  
 Success Siphesihle Mhlanga

\*Fadzai Melissa Mupfunya  
Lorna Nqodi

*In Tax Technical & Compliance:*

\*Zwile Abel Mbatha  
Cathrine Dibuseng Motholo  
\*Raphaella Faye Nair  
\*Xolani Ardeson Ngwenya

DEGREE OF MASTER  
OF COMMERCE

*In Accounting:*

\*Reece Chittenden  
Shelly Lee Herbert  
Bronté Leigh Morton  
Alison Michell Olivier  
Chelsea Elizabeth Thomson

*In Applied Economics:*

Caitlin Shannon Allen (with distinction  
in the dissertation and the degree  
with distinction)  
\*Max Wilbert Fitchet  
Aimee Elizabeth Hare (with distinction  
in the dissertation and the degree  
with distinction)  
\*Bruce Lauchlen Mc Dougall (with  
distinction in the dissertation and  
the degree with distinction)  
Louis Romain Moussi Sopp (with  
distinction in the dissertation)  
\*Olivia Emma Rusch (with distinction in  
the dissertation)  
\*Charlotte-Kathrin Stollberg

*In Corporate Finance & Valuations:*

\*Justin Gordon

*In Economics:*

Yaseen Brey  
Jonathan Edward Brink (with  
distinction in the dissertation)  
Tapiwa Francis Chinembiri  
\*Kerryn Catherine Cox (with distinction  
in the dissertation)  
\*Nicholas Falconer  
Makaita Margaret Gombe  
Jessica Hudson-Reed  
Jaungura Kazembua Kaune  
Micheal Kilumelume  
Siphokazi Sibahle Magadla  
Jessyca Joy Primo  
\*Derek John Welle

*In Economic Development:*

Michaella Sarah Allen (with distinction  
in the dissertation and the degree  
with distinction)  
\*Sisamkele Jobo  
Alexandra McGregor (with distinction  
in the dissertation and the degree  
with distinction)  
Muhammad Ali Ismail Moosajee  
Sabelosenkosi Ndlovu  
\*Abigail Joy Sellman (with distinction  
in the dissertation and the degree  
with distinction)

*In Financial Management:*

\*David Carel Louis Hauptfleisch  
Ashwill Rubin Lewis  
Richard John Mellon  
George Raymond Slabbert

*In Financial & Risk Management:*

Paul Stenton Markham  
Thobo Charity Mathame  
Taurai Muzhingi (with distinction in the  
dissertation)  
Desigan Reddy

*In Information Systems:*

Lisle Kim Carolissen  
Runyararo Esther Chibota  
Francois Armand Du Toit  
Ishe Tinomuvonga Madzime (with  
distinction in the dissertation)  
\*Fernanda Ernestina Matsinhe  
Yusuf Ryklief  
Mbulelo Tom  
Ivan Veljkovic

*In International Taxation:*

\*Leandi Helena Botha

*In Investment Management:*

\*Ritesh Girishkumar Ambalal (with  
distinction in the dissertation and  
the degree with distinction)  
\*Alexander Edward Kibble  
Nthabiseng Ketso Malebye  
Beauty Wame Mapororo  
\*Bradley Nicholas Mills (with distinction  
in the dissertation and the degree  
with distinction)  
\*Tebello Naledi Modise  
Joyce Tinevimbo Mukandi (with  
distinction in the dissertation)  
Liam Ross Pardoe

*In Organisational Psychology:*

Rene Estelle Hesqua

Johan Andries Horn  
Lyn Nyasha Muzondo  
Sandhia Raghubeer (with distinction in  
the dissertation)  
Nadine Adréa Veldsman (with  
distinction in the dissertation and  
the degree with distinction)

*In South African Taxation:*

\*Craig Thomas Bain  
\*Michael Ross Grant Dewar (with  
distinction in the dissertation and  
the degree with distinction)  
Debora Anneke Grottepass  
\*Ryan Alan Hartley  
Diara Jugdhaw  
\*James Francis Kay-Hards  
\*James Alexander Carteret Maule (with  
distinction in the dissertation)  
\*Lean Roelofse (with distinction in the  
dissertation)  
\*Clint Charles Schutters  
Vicki Jo-Anne Stemmet  
Rikotoka Punaje Swartz  
Juanita Van Der Merwe  
\*Mbali Dumisile Xulu

DEGREE OF MASTER OF  
COMMERCE IN  
DEVELOPMENT FINANCE

\*Temitayo Olayinka Abolade (with  
distinction in the dissertation)  
Jectone Tocho Achieng  
Bongiwe Andisiwe Beja (with  
distinction in the dissertation and  
the degree with distinction)  
Tamara Chilinkhwambe  
\*Gerhard Rothmann Fourie  
Robinson Gezimati (with distinction in  
the dissertation)  
Hilma Naleshemun Yenga Iiyambo  
(with distinction in the  
dissertation)  
Mutale Matthew Kangómbe  
\*Mutinta Mateyo Lunda  
\*Mwiinga Mwiinga  
\*Ndapewoshali Nawala Nakashole  
\*Nhongerai Nemaramba  
Diana Asmenye Ngoma  
\*Tinashe Nyaruwata  
Michele Rene Ruiters  
Namhla Saba  
Mwembe Sichula (with distinction in  
the dissertation)  
Malumo Siyanga  
\*Matela Thabane

Jackie Wolgast (with distinction in the dissertation)

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

*In Executive Management:*

Alan Lemuel Florence  
\*Ponciano Makombore  
Lauretta Taunyane

DEGREE OF MASTER OF PHILOSOPHY IN INCLUSIVE INNOVATION

\*Janine Lynn Carpenter  
\*Julia Ruth Du Plessis (with distinction)  
Andrew John Hibling  
\*Simon David Lloyd

DEGREE OF MASTER OF PHILOSOPHY

*In Demography:*

Nicola Marozva  
Siyanaï Zhou

*In Development Policy & Practice:*

Aneliswa Priscilla Revival Cele  
\*Gibson Masumbu  
\*Ramphelane Wheelwright Morewane  
\*Pieter Uys Pretorius (with distinction in the dissertation)  
Elizabeth Gertrude Walters  
Martha Wilhelm

*In Mathematical Finance:*

Feroz Bhamani (with distinction in the dissertation and the degree with distinction)  
\*Cian Luca Cullinan  
Matthew Daniel Gorven  
Nicolai Cornell Haussamer (with distinction in the dissertation and the degree with distinction)  
\*Febin Thomas Korula  
Marcio Ferrão Lopes  
\*Ndinæ Nico Masutha  
Niall John Morley  
\*Joel Oagile  
Kavir Patel  
Adrian Martin Schwellnus  
Matthew Wayne Shaw  
Andrew James Soane  
\*Thabo Tokwe

*In People Management:*

Matilda Moyana  
Samantha Ann Sampson

*In Programme Evaluation:*

Brilliant Bhebe (with distinction in the dissertation)  
\*Zani Bothma  
\*Lee Hungwe  
Lara Minne  
Mufudzi Muzire

DEGREE OF MASTER OF BUSINESS SCIENCE

*In Marketing:*

Shenai Bridglall  
Ozayr Mathews (with distinction)

DEGREE OF DOCTOR OF PHILOSOPHY

*In Actuarial Science:*

Chun-Sung Huang  
Thesis Title: *Highly efficient pricing of exotic derivatives under mean-reversion, jumps and stochastic volatility*

Chun-Sung Huang holds a BSc in Mathematics and Statistics and an MSc in Mathematical Finance from the University of KwaZulu-Natal (UKZN). He lectured in Actuarial Science at UKZN before joining UCT in 2011 to lecture Finance, and began pursuing his PhD in 2013.

Chun-Sung Huang's thesis investigates the pricing of financial derivatives with novel numerical integration techniques. In particular, he explores the highly efficient pricing of exotic options in a more sophisticated framework, whereby randomness is introduced in both the volatility and jump intensity of the underlying asset price. While such inclusions are necessary to capture the various asset price phenomena observed in the financial market, difficulties may arise as the complexity introduced makes it impossible to find a closed-form solution for the option price. For example, a long standing hard problem is the pricing of discretely-monitored arithmetic Asian options, whereby the option price is heavily dependent on the realisation of asset prices at particular time points prior to

the option's maturity. This, together with the pricing of power options, is addressed in Chun-Sung's thesis. In addition, the research demonstrates the robustness and consistency of the pricing methodologies under different market conditions.

*Supervisor:* Dr S Mataramvura

(Actuarial Science)  
*Co-supervisor:* Dr JG O'Hara (CCFEA, University of Essex)

*In Business Administration:*

Rowland Mwesigwa Banya  
Thesis Title: *Competitiveness and efficiency of commercial banks and economic growth in the frontier economies of Africa*

Roland Mwesigwa Banya has a BSocSc from UCT, and an MSc from the University of Kent, Canterbury. His research focuses on development finance and industrial organisation of financial institutions in emerging economies.

In his thesis, Roland Mwesigwa Banya analyses the level of banking competition and efficiency in the frontier market economies of Africa. Specifically, the thesis examines the interrelationship among efficiency, competition, and economic growth of commercial banks from 10 African countries using annual firm level data from 2005 to 2012. The main findings from the empirical analysis suggest that the market is characterised by commercial banks that exercise high pricing power (exhibit less competition). and most of these banks operate below their optimal capacity. The results also show that enhancing competitive conditions improves the ability of banks to maximise their earning potential. Policy recommendations for improving competition and efficiency and streamlining regulation of the commercial banking sector are discussed.

*Supervisor:* Professor N Biekpe

(Graduate School of Business)

Wanda Ingrid Chunnnett

Thesis Title: *A model for the utilisation of networks and leveraging of the economic benefits of migration capital in emerging markets*

Wanda Chunnnett holds a BSc from Rhodes University and an Executive MBA from the Graduate School of Business at UCT. She has practiced in industry for 39 years, latterly focusing on the development of sustainable small businesses specialising in infrastructure delivery.

Wanda Chunnnett's thesis considers how emerging market economies can leverage sustainable growth opportunities for resource constrained, involuntary migrant entrepreneurs. The study develops a model that could be implemented by public and private institutions in developing economies to maximise the economic benefits of migrant entrepreneurs. The research is inspired by the work of Elizabeth and Robert Bjork and extends their concept of desirable disabilities into the realm of societal "disabilities" of resource constrained migrants. These entrepreneurs must accumulate the necessary social, knowledge and economic capital to establish sustainable businesses. The theoretical contribution of the research is to take the involuntary migrant debate beyond the "refugee as burden" paradigm, by focusing on resource constrained, involuntary migrants as potential economic contributors.

*Supervisor:* Dr E Shelley (Graduate School of Business)

Coléne Hind

Thesis Title: *Organisational practices and individual innovation behaviour: a non-linear approach to modelling the emergence of corporate entrepreneurship*

Coléne Hind holds a BCom degree in Marketing and an MPhil in Entrepreneurship from the University of Pretoria.

Coléne Hind's thesis considers new venture creation within existing organisations, a phenomenon referred to as corporate entrepreneurship, with a specific focus on understanding individual innovative behaviour within the dynamics

of organisational practices. The research is conducted from the theoretical paradigm of complexity, allowing for an alternative methodology that is open to non-determination and a holistic exploration of a particular phenomenon. The study produces a conceptual framework that can be contextually adapted and applied to gain an understanding of the emergence of corporate entrepreneurship within various organisational settings. The study concludes that an understanding of the emergence of corporate entrepreneurship can be enhanced through alternative methods that allow for the non-linear and dynamic nature of the phenomenon, rather than determinant methods that attempt to reduce it. The thesis offers a revolutionary contribution to the quest for new methods, open to the complexities and the dynamics of organisational phenomena.

*Supervisor:* Professor W Baets (Complexity and Value Based Leadership)

*Co-supervisor:* Professor S Henning (Leadership and Organisational Behaviour)

Misheck Mutize

Thesis Title: *The impact of sovereign credit rating changes on financial market returns in Africa*

Misheck Mutize holds BSc and MSc degrees in Finance and Investment from the National University of Science and Technology, Zimbabwe. He joined the Graduate School of Business in 2016 for his PhD studies. He has worked as a lecturer at different South African universities for the past five years.

Misheck Mutize's thesis investigates the effects of the ratings made by credit rating agencies on financial markets in 30 African countries during the period of 1994 to 2014 to determine whether long-term foreign currency sovereign credit rating announcements contain important information that influences the secondary market stock and bond returns. Using different econometric analyses, his study concludes that although there are shortcomings in the operations of credit rating agencies, sovereign credit ratings are important in the operation of stocks and bond markets in Africa.

He recommends that governments take cognizance of the long-term information exchange between investors and borrowers, and the consequential nature of credit ratings to proactively manage the risks of negative sovereign credit ratings.

*Supervisor:* Dr SJ Gossel (Graduate School of Business)

*In Economics:*

\*Samuel Addo

Thesis Title: *Regime changes in monetary policy*

Samuel Addo holds BA(Hons) and MPhil degrees in Economics from the University of Cape Coast, Ghana, and the University of Ghana. He is an employee of uniBank Ghana Limited, an indigenous financial institution in Ghana.

Samuel Addo's thesis analyses the effects of monetary policy regimes in stabilising inflation and output movements in emerging economies. He starts by examining whether central bank policy choices are linked to governors' preferences when regimes change and finds that policy outcomes are different under different central bank governors because of policy regime changes, and not necessarily because of different governors at the central bank. He further looks at policy regimes and their effect on the evolution of economic performance and suggests that policy changes account for smaller effects on the economy than external factors. He extends this to show the effects of policy changes on central bank credibility and finds that such credibility is an important instrument to assist central banks to stabilise the economy. This knowledge will help the creation of monetary policy in emerging economies that face rapid inflation and output growth movements.

*Supervisor:* A/Professor M Ellyne (Economics)

*Co-supervisor:* Dr L Mateane (Economics)



\*Michael Ernst Rose

Thesis Title: *Collaboration networks in economic science*

Michael Rose holds a BSc in Economics and Business Administration from the University of Jena, Germany, and an MSc in Economics from Kiel University, Germany. He joined the School of Economics at UCT in 2015 for his PhD studies.

Michael Rose's thesis focuses on the innovation and collaboration networks in Economics. He investigates how interactions and knowledge flows among academic Economists impact their research and their careers. For his research he collected acknowledgement sections from more than 6000 full research articles from six major financial economics journals. These acknowledgement sections give credible account of informal collaboration, which has rarely been studied. Using a network view, the study finds that an article's citation count is positively influenced by the connectedness of its commenters. Using a structural model, he attributes this to a higher absorptive capacity of the commenter. Furthermore, he finds that ranking Economists according to their position in the network constitutes a novel measure of impact which can complement existing metrics. Finally, the study shows that newly minted PhD students are placed better in the market for academic Economists if their advisers are well connected.

*Supervisor:* A/Professor C-P Georg (AIRMRM)

*Co-supervisor:* A/Professor D Taylor (Actuarial Science)

*In Finance:*

Rita Amoah Bekoe

Thesis Title: *Attitudes of stakeholders towards web-based disclosure: empirical evidence from an emerging economy*

Rita Bekoe holds BSc and MPhil degrees in Accounting from the University of Ghana, Legon. She joined the Department of Finance and Tax at UCT for her PhD studies in 2013. She is a lecturer with the Department of Accounting, University of Ghana Business School.

Rita Bekoe's thesis focuses on stakeholders' attitudes to accounting information on corporate websites. She uses the technology acceptance model and innovation diffusion theory to examine the attitudes of users to the use of online accounting information and investigates the dominant factors that influence such attitudes. She employs the survey method of research, and interviews different stakeholders at the Ghana stock exchange. Using the structural equation modelling technique, specifically the partial least squares approach, to analyse the data, she finds that users generally have a positive attitude to web-based reporting. The study develops a framework that provides insight into users' attitude towards web-based reporting, the determinants of such attitudes, and their influence on the use of online reports. She demonstrates that providers of online accounting information should place more emphasis on the quality of information provided, that is ensure its timeliness, reliability and transparency.

*Supervisor:* Emeritus Professor E Uliana (Finance and Tax)

*Co-supervisor:* Dr JM Onumah (Accounting, University of Ghana)

Mark Jonathan Botha

Thesis Title: *Collective ownership in the South African small-scale fishing sector: A framework for sustained economic growth*

Mark Botha completed his BCom and BCom(Hons) at UWC and MCom at UCT. He began his PhD studies in 2014. He currently lectures at UWC and has been working in the fisheries sector for more than 16 years.

Mark Botha's thesis focuses on creating a framework for growth in the small-scale fisheries sector to extract greater value in fishing from harvesting, processing and marketing processes as well as through collective entrepreneurship and cost reduction. The wellbeing of fishers would be improved by reducing administrative inefficiencies and reorganising the small-scale fisheries value chain. Moreover, the findings of this study show that small-scale fishers require developmental support to exploit

opportunities, and the study suggests establishing a multidisciplinary research, advisory and training institute. The envisaged institute could provide for the establishment of localised fishing community information centres in fishing communities, harbours and slipways. These information centres could improve communication, build trust and share expertise among small-scale fishers, their co-operatives, government departments, industrial associations, non-governmental organisations, and other agencies. Such infrastructure could effectively secure government's infrastructural investment programme within the small-scale fisheries sector.

*Supervisor:* Professor EO Uliana (Finance)

*Co-supervisor:* Professor JJ Williams (School of Government)

Sydney Chikalipah

Thesis Title: *Why are microcredit interest rates in sub-Saharan Africa so persistently high? Testing the predictions of theoretical models*

Sydney Chikalipah holds a BSc degree in Applied Accounting from Oxford Brookes University and an MSc degree in Development Finance from the University of Reading. The first two years of his doctoral work were completed at Bournemouth University before he transferred his studies to UCT in 2017.

Sydney Chikalipah's development finance thesis investigates the factors that influence microcredit interest rates in sub-Saharan Africa. This is important to understand as high interest rates inhibit financial development and might be holding the region back. A panel dataset, primarily sourced from the Microfinance Information eXchange (MIX) Market, was used to test for associations with microcredit interest rates. He found that microcredit interest rates are higher than need be due to unexploited economies of scale, institutional deficiencies, and volatile macroeconomic fundamentals and not due to the exploitation of the poor. He also finds that it is possible for microfinance organisations to make a profit when serving the poor; as long as they offer large enough loans (> USD

500). Lastly, he finds that illiteracy has a negative effect on financial inclusion in sub-Saharan Africa. His results should be of interest to microfinance managers as well as policy makers.

*Supervisor:* A/Professor P de Jager  
(Finance & Tax)

Thando Loliwe  
Thesis Title: *The effect of reporting incentives on International Financial Reporting Standards compliance by unlisted companies in South Africa: Using qualitative and quantitative methods*

Thando Loliwe has a BAcc from the University of Durban-Westville, an honours from UNISA, and an MCom from the University of Pretoria.

Thando Loliwe's thesis investigates factors affecting compliance with International Financial Reporting Standards (IFRS) by unlisted South African companies. It does so at the global, the country and the company levels. It also considers whether taking such factors into account in the standard-setting process would lead to improved compliance. It uses decision usefulness theory and self-prophecy effect as the theoretical basis for analysing the collected data. The thesis suggests a model which explains those indicators which appear to influence unlisted companies' IFRS use at company level. His theoretical contribution is the finding that when dealing with unlisted companies, decision usefulness theory needs to focus on the unlisted companies holistically, treating them as separate entities, rather than concentrating on decision-makers in these companies.

*Supervisor:* Emeritus Professor E Uliana  
(Finance)

*Co-supervisor:* Professor N Waweru  
(York University)

*In Information Systems:*

Akinlolu Olumide Akande

Thesis Title: *Using software as a service to support the academic activities of students in higher education institutions with a relative lack of resources*

Akinlolu Olumide Akande holds a BSc in Computer Science from the University of the Western Cape. After joining the Department of Information Systems at UCT in 2011 he obtained a BComHons and MCom (with distinction) in Information Systems.

Akinlolu Akande's thesis investigates how Software-as-a-Service (SaaS), where computer applications and data can be accessed anywhere and anytime via any internet enabled device, can help students in performing their academic tasks. Such tasks include accessing learning resources, scheduling their time, collaborating with others, and submitting academic work. The study is concerned with contexts in which financial, human, and institutional resources are relatively scarce. Akinlolu Akande interviews students, IT staff, and academics at four universities in Nigeria and South Africa. He finds that, although the take-up of Software-as-a-Service is still relatively low, students who adopt SaaS find it to be mostly beneficial. Akande identifies the contradictions within the activity systems in the four universities and the benefits and limitations of using Software-as-a-Service. Akinlolu Akande uses of his findings to develop a framework which can be used by University decision-makers when adopting SaaS applications.

*Supervisor:* Professor JP Van Belle  
(Information Systems)

Yasser Buchana

Thesis Title: *Generative mechanisms of IT-enabled organisational performance in resource-constrained Emergency Medical Services organisations in South Africa*

Yasser Buchana holds a BSc degree in Computer Science, and an honours and master's in Information Systems. He commenced his PhD in 2014.

Yasser Buchana's thesis explains how emergency medical organisations achieve their performance outcomes through the use of Information Technology. These organisations provide pre-hospital emergency services to sick and injured patients and are increasingly under pressure from government and other stakeholders to explain their performance. This study is informed by the critical realist philosophy of science and uses complex adaptive systems theory and institutional theory as theoretical lenses. It presents a final model which shows how culture, IT infrastructure, organisational learning, efficient business processes, real-time analytics, and resource optimisation impact performance outcomes. Findings from this study could be used for emergency medical policy planning and health programme management to assist managers and other practitioners in emergency medical organisations in South Africa and other sub-Saharan African countries to improve emergency medical service delivery to the public.

*Supervisor:* A/Professor L Seymour  
(Information Systems)

*In Organisational Psychology:*

Carren Duffy

Thesis Title: *The divide between academic and business practice: exploring training evaluation practices and their perceived value in corporate South Africa*

Carren Duffy completed her BComHons in Training Evaluation (2007) and MCom in Programme Evaluation (2009) at UCT. In 2009, she joined UCT's School of Management Studies as a lecturer in the Organisational Psychology Section. She began her PhD studies in 2012.

Carren Duffy's thesis is in the broad domain of human resource development and considers the training evaluation practices of South African corporate companies. She investigates the extent to which organisations use training evaluation data and feedback as a vehicle for organisational learning and change. She explores how corporates are measuring and monitoring the effectiveness of their training and development interventions. She then probes executive management's perceptions of training evaluation and the factors that hinder the systematic implementation of this theoretically established and promoted business practice in the corporate environment. Based on the disconnection found between theory and practice, she proposes a shift in how training evaluation is theoretically conceptualised and practically applied.

*Supervisor:* A/Professor Suki Goodman (Organisational Psychology)

*In Quantitative Finance:*

\*Alexander John Backwell

Thesis Title: *Term structure models with unspanned factors and unspanned stochastic volatility*

Alex Backwell completed his BBusSc (Actuarial Science, Quantitative Finance) and MPhil (Mathematical Finance) degrees at UCT. In 2014, he commenced his PhD research at UCT's African Institute of Financial Markets and Risk Management, and began lecturing fourth-year Actuarial Science courses at the university.

Alex Backwell's thesis is concerned with the mathematical modelling of interest rates, and particularly with the modelling of interest-rate volatility; that is, the way the potential variation of interest rates is controlled and allowed to fluctuate. He focuses on a certain class of interest-rate models involving volatility that is independent — in a specific, formal sense — from the interest rates themselves. Part of his research investigates these models empirically and find them to be necessary to realistically model interest-rate markets, both locally and internationally. In addition, his thesis develops a theoretical framework in which the

mathematical and financial properties of these models are formally characterised. Finally, a specific subclass of these models is theoretically addressed and developed. The research contributes to the understanding of interest-rate markets and of how the associated financial risk can be managed.

*Supervisor:* Professor P Ouwehand (AIFMRM)

*Co-supervisors:* A/Professor D Taylor (AIFMRM), Professor A Macrina (AIFMRM, University College London)

Mario Nicolo Giuricich

Thesis Title: *Index-linked catastrophe instrument valuation*

Mario Nicolás Giuricich holds a BBusSc (Actuarial Science) and an MPhil in Mathematical Finance from UCT. He commenced his PhD studies in 2014 and since then has taught extensively for the African Institute for Financial Markets and Risk Management as well as UCT's Actuarial Science Department.

Mario Nicolás Giuricich's thesis considers the subject of insurance-linked securities used by insurers to hedge against large losses owing to natural catastrophes. His work focuses on index-linked catastrophe bonds. He constructs a simple pricing framework for these bonds, and addresses the modelling of the underlying loss process, accounting for the left-truncated and heavy-tailed nature of the data. Thereafter, he derives simple, closed-form approximations to catastrophe bond prices by invoking the weak convergence of the loss process to an alpha-stable Lévy motion. His thesis ends by comprehensively structuring and analysing a new insurance-linked security, the contingent convertible catastrophe bond. This is a bond which is converted to the equity of the issuing insurance company upon being triggered by a natural catastrophe. He considers why it is useful for insurers and reinsurers to issue such a bond, and moreover constructs a valuation framework for this bond.

*Supervisor:* Associate Professor P Ouwehand (African Institute of Financial Markets and Risk Management)

*Co-supervisors:* Associate Professor K Burnecki (Faculty of Pure and Applied Mathematics: Wrocław University of Science and Technology) and Honorary Professor E Platen (School of Mathematical and Physical Sciences: University of Technology Sydney)



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## FACULTY OF HEALTH SCIENCES 2

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### ORDER OF PROCEEDINGS

Academic Procession.

*(The congregation is requested to stand as the procession enters the hall)*

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Statement of Dedication will be read by a representative of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

The Master of Ceremonies will present Tania Douglas for the award of a Fellowship.

The Master of Ceremonies will present Robert Dunn and Pradeep Navasaria  
(in absentia) for the Distinguished Teacher Award.

The graduands and diplomates will be presented to the Presiding Officer  
by the Interim Dean of the Faculty of Health Sciences.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall.  
*(The congregation is requested to remain standing until the procession has left the hall.)*

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## **DISTINCTIONS IN THE FACULTY OF HEALTH SCIENCES**

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Postgraduate diplomas may be awarded with distinction if the candidate has achieved 70% and above for all courses with a weighted average of at least 75%

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees (by coursework and dissertation) may be awarded with distinction

for the dissertation, where the mark for the dissertation is at least 75%

for the degree, where the weighted average is 75% or better and no component is below 70%

Master's degrees (by dissertation) may be awarded to a candidate who achieves a mark of 75% and above for the dissertation.

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## **DECLARATION FOR HEALTH SCIENCES GRADUANDS**

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### **AT THE TIME OF BEING ADMITTED AS A MEMBER OF THE HEALTH PROFESSION:**

I solemnly pledge to serve humanity

My most important considerations will be the health of patients and the health of their communities

I will not permit considerations of age, gender, race, religion, ethnic origin, sexual orientation, disease, disability or any other factor to adversely affect the care I give to patients

I will uphold human rights and civil liberties to advance health, even under threat

I will engage patients and colleagues as partners in healthcare

I will practise my profession with conscience and dignity

I will respect the confidentiality of patients, present or past, living or deceased

I will value research and will be guided in its conduct by the highest ethical standards

I commit myself to lifelong learning

I make these promises solemnly, freely and upon my honour.

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## DISTINGUISHED TEACHER AWARD

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The Distinguished Teacher Award, given once only to an individual, recognises teaching at any or all levels by a member of the faculty that has made a significant and lasting impression on students.

Previous recipients in the Faculty of Health Sciences have been:

2000	A Mall (Surgery)
2001	C Slater (Human Biology)
2002	J Krige (Surgery)
2003	P Berman (Chemical Pathology) G Louw (Human Biology)
2004	V Burch (Medicine)
2005	M Blockman (Pharmacology)
2012	Z Woodman (Molecular & Cellular Biology)
2014	D Khan (Surgery)

The following members of the Faculty of Health Sciences have been chosen for this award in 2018:

**ROBERT DUNN**  
**DEPARTMENT OF SURGERY**

Following UCT under- and postgraduate training, Robert Dunn travelled to London to train further in spine surgery. There he was exposed to cadaver based surgical teaching at the Royal College and encouraged to present research at their national meetings. On returning to Groote Schuur Hospital in 2001 as UCT joint staff he developed his passion for postgraduate teaching and training of young orthopaedic surgeons. He immediately reorganised the specialist academic program. This program generates four orthopaedic surgical specialists a year.

With his interest in spine surgery, he developed a training unit which received international AOSpine recognition with regular foreign observers coming to learn on our challenging cases. In 2005 he attracted external funding and created the country's first spine fellowship where he continues to train qualified ortho- and neurosurgeons in the spine sub-discipline, drawing nationally and internationally. To date he has produced 21 spine surgeons who have improved the level of spine care in the region, his fellows now running the Tygerberg and Pietermaritzberg units amongst others, establishing services as far away as Namibia, Kenya, Cameroon and Zimbabwe. He continues to support his fellows by visiting their units to collaborate on further training and running of courses to raise the level of local care. At a recent spine congress dinner 17 of these fellows from the continent assembled to celebrate this program, many now instituting their own training programs – resembling a very positive Ponzi scheme.

Robert Dunn changed the way surgery was traditionally taught – “see one, do one, teach one” – to the use of regular cadaver based labs where trainees are taught complex surgical procedures in a safe environment before attempting on patients. His spine cadaver course and live animal-based surgery courses are well recognised, the former being run annually for 16 years improving skills of 24 existing specialists per year.

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## **DISTINGUISHED TEACHER AWARD (CONTINUED)**

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He was appointed as HOD to the Pieter Moll and Nuffield chair in 2012. He recognised the need to re-focus the undergraduate MBChB orthopaedic teaching on primary musculoskeletal care. To improve access to learning, under his leadership a YouTube channel UCTeach was created. The age old case report requirement was abandoned and students were expected to produce seven minute videos on all aspects of orthopaedic surgery as part of their block mark, the best videos being uploaded to YouTube for others to learn from. The exam was changed to an OSCE based system, which was revolutionary in surgery at the time, testing practical skills and driving learning.

As a surgeon, most of Robert Dunn's teaching is around patients whether that is in the clinic, over an operating table or clinical case discussions. He prides himself in "walking the talk", attracting many locals and international surgeons who wish to learn from his operative care of challenging paediatric and adult deformity cases. With the clinical experience gained from the overwhelming clinical load, Robert Dunn is frequently invited to teach at international meetings where he flies the UCT / GSH flag.

He has a strong surgical philosophy of applying the best skills the world has to offer but appropriate to the local environment, to empower local surgeons to cope and flourish despite our challenges.

### **PRADEEP NAVSARIA (in absentia) DEPARTMENT OF SURGERY**

Professor Pradeep Navsaria is a trauma surgeon and lecturer at the Faculty of Health Sciences. Among other qualities is his willingness and selflessness to repeatedly give of his time to improve the education of students. Should there be a gap in the skills training of students, he is, without fail, there to fill it. The UCT Surgical Society – with a base of 600 students – attest to his willingness to assist. According to his students, he is a very versatile teacher. From formal lectures to large groups of students, to smaller, hands-on skills tutorials, he can adapt to the situation and bring out the best in students' knowledge. Pradeep leads by example and teaches students to be calm, rational, and methodical in the face of overwhelming challenges. His teaching is always relevant to the real world and he is clearly invested in producing young doctors who will be able to cope with the challenges of managing the high burden of trauma in South African medical practice. Providing education within different, often stressful and time-constrained environments is testimony to his ability and versatility.

Pradeep believes that teaching requires openness to change; therefore, he continually examines his teaching techniques and experiments with ways to become a more effective teacher. He strives to create an active, collaborative learning environment filled with curiosity and inquiry in which all participants are both teachers and learners and where students can discover knowledge rather than be passive recipients. A dynamic and influential communicator, he possesses the rare gift of being able to make complex subjects understandable. In addition, he is a humble and approachable person – with a great sense of humour – who loves to share his extensive knowledge with others, especially his students.

Unsurprisingly, Pradeep also takes a direct role in influencing student's career development. It is this thoughtfulness to enhance students' careers that contributes to making him a worthy recipient of this award. He makes an effort to get to know students on a personal level, asking after their wellbeing and their families. It is his open-door policy that allows students to feel welcomed and comfortable in turning to him for advice – even on a personal level.

His stated views are that medicine is about compassion, service, altruism, and trustworthiness; values that continue to guide the profession. It is these values that shape his teaching and underpin his belief that the future generation of doctors and surgeons need to see these values in practice. It is clear from the testimony of many of those who have worked with him, both locally and internationally, and from those who have studied under him that Pradeep Navsaria is indeed a role model and a most deserving recipient of this year's UCT Distinguished Teacher's Award.

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## FELLOWSHIP

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The election by Senate of a member of the faculty to be a fellow recognises sustained and original contributions through research or creative endeavour.

The fellows in the Faculty of Health Sciences and their years of election are:

- 2006: F Brombacher  
P Meissner
- 2008: HJ Zar
- 2010: EV Lambert  
A-L Williamson
- 2011: DJ Stein
- 2014: ED Sturrock  
C Williamson
- 2015: G Hussey  
N Levitt
- 2016: K Dheda  
G Maartens  
B Mayosi  
V Mizrahi  
R Ramesar
- 2017: N Mulder
- 2018: K Barnes  
M Collins  
L Gilson  
M Lambert  
C Lund  
G Meintjes

The following member of the Faculty of Health Sciences has been elected to a fellowship:

### **TANIA DOUGLAS**

Tania Douglas is Professor of Biomedical Engineering in the Faculty of Health Sciences and holds the prestigious South African Research Chair in Biomedical Engineering & Innovation. She also serves as Director of the URC-accredited Medical Imaging Research Unit. Her qualifications include: a BSc (Eng) degree in electronic engineering from UCT; a master's degree in biomedical engineering from Vanderbilt University in Nashville, USA; and a PhD in bioengineering from the University of Strathclyde in Glasgow, Scotland. Six years ago Professor Douglas earned an Executive MBA from the Graduate School of Business at UCT where she was awarded the Gold Medal.

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## FELLOWSHIP (CONTINUED)

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For the past 20 years Professor Douglas's research has focused on major public health problems in South Africa for which she has developed innovative instruments and techniques for computer-assisted diagnosis. The first set of techniques applied image and statistical shape analysis to the characterisation of the facial phenotype associated with fetal alcohol syndrome, for which our country has the world's highest incidence. This work has been published in leading international engineering journals such as *Medical & Biological Engineering & Computing* and *IEEE Transactions on Medical Imaging*, and, based on extensive citations, her research group is now recognised as one of the world's leaders in the analysis of facial morphology.

South Africa has one of the highest burdens of tuberculosis (TB), with about 1% of the population developing active TB each year. The challenge is early diagnosis and Professor Douglas has made seminal contributions in automated microscopy for the detection of TB. This latter work was funded by a research grant from the National Institutes of Health in the USA, for which she was the principal investigator, and enabled her to build and test a highly regarded "smart microscope". She is currently building on this work to develop a smartphone application to assess patient response to the tuberculin skin test. Working with Lodox Systems, Professor Douglas has pioneered the application of low radiation dose imaging for the diagnosis of bone and soft tissue disorders, raising her international profile and that of her Medical Imaging Research Unit, while also enabling Lodox to implement her algorithms in their products. Recent work involving this imaging modality includes novel ways of measuring bone mineral density.

Professor Douglas's recent work has emphasised the social context of technological innovation and the importance of end-user engagement. With a new postgraduate programme in health innovation, she has created an ecosystem in which biomedical engineering and social context are identifying novel solutions for improved health. Professor Douglas has launched and is founding editor of an open-access electronic journal, *Global Health Innovation*, and she is also engaged in capacity development for academic staff and postgraduate students from other African countries, with funding support from the National Institutes of Health and the European Commission (EC).

Before joining UCT in 2000, Professor Douglas was a post-doctoral fellow at the Japan Broadcasting Corporation in Tokyo where she worked on face-recognition algorithms. At UCT she was subsequently awarded research fellowships by: the International Institute for Theoretical Physics in Trieste, Italy; the Alexander von Humboldt Foundation in Germany; and the Erasmus Mundus programme of the EC. She has received the UCT Fellows' Award for Young Academics, and Researcher of the Year awarded by IEEE Women in Engineering. Professor Douglas is an elected Fellow of the South African Academy of Engineering, an elected Member of the Academy of Science of South Africa, and last year was elected a Fellow of the International Academy for Medical and Biological Engineering.



**NAMES OF  
GRADUANDS/ DIPLOMATES**

An asterisk denotes that the degree/  
diploma will be awarded in the absence  
of the candidate.

**FACULTY OF HEALTH SCIENCES**

*Interim Dean: Professor C Williamson*

**HIGHER CERTIFICATE IN  
DISABILITY PRACTICE**

\*Bukiwe Mkhuba

**ADVANCED DIPLOMA IN  
COSMETIC FORMULATION  
SCIENCE**

Siyanda Lelethu Dukashe  
Nolonwabo Hlazo  
\*Siphiwo Nondumiso Kuthula Hlengwa  
Naadhirah Isaacs  
\*Amelie Simone Johnston  
Ange Lukoki Ngiedi  
Nonelwa Mankutywana  
Sisanda Mpungutye  
Phelokazi Mtwini  
\*Nomahlubi Alicia Nazo  
Simbabalwe Xabiso Mirriam Somlota

**DEGREE OF BACHELOR  
OF SCIENCE IN MEDICINE**

Lynn Hazel Bust  
\*Taariq Goolam Parker

**DEGREE OF BACHELOR  
OF SCIENCE IN AUDIOLOGY**

Bibi Fathima Adat  
Aimee Claire Alperstein  
Wiedaad Bowers  
\*Nnyawedzeni Bernad Dagada  
Gabriella Sandra De Souza  
Samantha Ferreira  
Lauren Chantelle Fredericks  
Mushfiqah Gaidien  
Bealette Henn (with distinction)  
Sibongiseni Jezile

Maselesele Magwasha Komana  
Gaboikangwe Precious Kwaso  
Kisha Liddle  
Thobeka Maphumulo  
Tumisho Esther Lebofya Masha  
Nomfundo Mdliki  
Maselimo Veronica Mokhomo  
Nombongo Feziswa Ntswayi  
Yuvitha Ramdutt (with distinction)  
Faadhla Robbertse  
Clarissa Annette Samuel  
Zhuqeelah Scott  
Senamile Gcinile Simelane  
Shenel Singh  
Jonathan Paul Stokell  
Kathleen Strydom  
Anri Marijke Van Onselen (with  
distinction)  
Anika Velloen  
Doolwala Anjani Waidyaratne (with  
distinction)  
Yonela Ziselo

**DEGREE OF BACHELOR  
OF SCIENCE IN OCCUPATIONAL  
THERAPY**

Fareeda Allie  
Keziah Avenant  
Rowan Louise Banks  
Elmari Botes (with distinction)  
Haley-Anne Box  
Michaela Coetzee  
Jessica Amy Coetzer (with  
distinction)  
Azraa Dabhelia (with distinction)  
Emma Frances Dreyer (with  
distinction)  
Amy Roseanne Dyamond (with  
distinction)  
\*Tamara Robyn Friedman  
Dineo Gaosengwe  
Allison Justine Hill  
Christina Hiripis  
Katharine Jane Hofmeyr  
Christine Rebecca Irons (with  
distinction)  
Claire Irene James  
Sinead Ellen Johnson  
Kim Ashley Jones  
Amanda Penelope Khumalo  
Lozinyanga Mbali Mabuza  
Buhle Gugulethu Maseko-MacArthur  
Jessica Lauren Mccallum  
Siobhan Teron Moore  
Alisha Kevashnie Munsamy  
Fezile Prince Ntuli

Lauren Nyback  
\*Zakia Omarjee  
Nkateko Phakula  
Jade Phillips (with distinction)  
Taryn Phillips (with distinction)  
Madison Taryn Quayle (with  
distinction)  
Sara Jean Reed  
Claerine Jaymeylee Samuels  
Mbali Siphindile Sigwebela  
Demi Shannon Southgate  
Romana Sultan-Hoosen  
Nambitha Tyatyaza  
Caitlin Ann Ullbricht  
Danél Van Der Westhuizen  
\*Tayla Hannah Van Rees  
Layla Wakfer  
Tayla Wall  
Chloe Leigh Walls

**DEGREE OF BACHELOR OF  
SCIENCE IN PHYSIOTHERAPY**

Dilshaad Abrahams  
Fouza Abrahams  
Kirstin Jade Adams  
Amy-Kate Armstrong  
Claire Batchelor  
Ayesha Benjamin  
Daneve Laken Blooms  
Nika Brand  
Liam Bredeveldt  
\*Aa'ishah Dadabhay  
Karishma Dahya (with distinction)  
Jayne Irene Day  
Aadiel Shabier Adam Essop  
Daniëlle Dianca Farmer  
Maxine Leigh Farr  
Lara Ashley Flood  
Taslynn Fortuin  
Kyla Fourie  
Mfanelo Dafter Godlo  
Christine Claire Goliath  
Karima Ethel Hare (with distinction)  
Waheedah Harris  
Dominic Haussamer  
Megan Leigh Hayden (with distinction)  
Zaeyaan Hendricks  
Ashleigh Justine Huisamen  
Aqeelah Kemp  
Jason Kleinsmith  
Andrew William Kleyn  
Nwabisa Tia Kwinana  
Bianca Maria Leader (with distinction)  
Regomoditswe Olerato Legodu  
Kgomotso Comfort Lejapudi  
Katlego Ntombi Lekoane

Caitlin Leslie  
 Robyn Shelley Luden  
 Mzamo Madolo  
 Sibabalwe Mama  
 Robyn Manzoni  
 Zuko David Maqungwana  
 Jenna Martin  
 Mahlatse Ellah Mashego  
 Rethabile Confidence Masoga  
 Anele Mazinyo  
 Cathryn Jean Minnie  
 Chuma Mkiva  
 Tshepo Cornelius Mogatle  
 Molebogeng Motlatsi Mokone  
 Pulane Monamola  
 Bonginkosi Harvey Moraba  
 Tyra Murray  
 Nandi Wela Ndaba  
 Korotsoane Julius Nkhase  
 Sibongiseni Sandile Nkosi  
 Sindiswa Pretty Nobula  
 Nonkululeko Siwelile Nxaba  
 Kyleigh Ashton Pailman  
 Puseletso Maphefo Pilusa  
 Melissa Janine Reynolds (with distinction)  
 Tara Paige Ruiters  
 Nomthandazo Philisile Sabela  
 Llevona Olivia Samuels  
 Melissa Celia Schneider  
 Emma Alexandra Sillito  
 Joseph Murray Smit  
 Jami Tiffany Smith (with distinction)  
 Keanan Waven Smith  
 Sharo-Lee Bianca Solomons  
 Komal Soni  
 Adrienne Maria Soule  
 Kyla Darian Soutter  
 Victoria Alicia Sproat (with distinction)  
 Zintle Stuma (with distinction)  
 Caroline Michelle Temlett (with distinction)  
 Courtneigh Tlhapane  
 Abongile Gcina Twaku  
 Frances Ruth Upton (with distinction)  
 Mogamat Faez Williams  
 Nikita Williams  
 Leanne Robyn Wilson (with distinction)  
 Zoe Ziegler

DEGREE OF BACHELOR OF  
 SCIENCE IN SPEECH-LANGUAGE  
 PATHOLOGY

Alice Isabella Bednall  
 Daniela Silva Bolton  
 Mawadda Brown

Jacqueline Carla Catterson (with distinction)  
 Natalie Claire Davis (with distinction)  
 Zahra Ismail Dawood  
 Chelsea Ann Dunn  
 Shannon Leigh Florence  
 Tyra Gideon  
 Zulaikha Bibi Goolam  
 Alexandra Grace Green  
 Jessica Anne Hazell  
 Clarissa Hough  
 Caela Louise Huckle  
 Hannah Judith Winter Human  
 Ashley Erin Hutchison  
 Robin-Lee Jagger  
 Mishkah Kemp  
 Tegan Dale King  
 Mabjala Charity Mabusela  
 Analo Maseleni  
 Ashleigh Lara McHendrie  
 Molly Helena Louise McMiles  
 Rorisang Sharon Mokgofe  
 Zanri Moolman  
 \*Nicolla Dineo Msiza  
 Mesharn Naidu  
 Andisiwe Buhle Nxoko  
 Andrea Oellermann (with distinction)  
 Aalia Patel  
 Alyxé Neva Rosenberg (with distinction)  
 Alesia Ruthven (with distinction)  
 Aqeelah Sasman  
 Lucy Langelihle Shabalala  
 Zanele Jabulisile Ntombizodwa Sithole  
 Alexandra Marie Smuts  
 Georgina Frances Mary Taylor (with distinction)  
 Shannon Jacqueline Alice Whyte  
 Alexa Wyer (with distinction)

DEGREE OF BACHELOR  
 OF MEDICINE AND BACHELOR  
 OF SURGERY

Jayden Thomas Adams (with distinction in the basic sciences and clinical sciences and the degree with honours)  
 Christabel Afi Addo  
 Nasreen Akoo (with distinction in the clinical sciences and the degree with honours)  
 Aimee Chrissy Allison  
 Zachary Amod (with distinction in the clinical sciences and the degree with honours)

David Ian Backwell (with distinction in the basic sciences and clinical sciences and the degree with first class honours)  
 Mukuzo Fortunat Bagula (with distinction in the clinical sciences and the degree with honours)  
 Loyiso Tando Balfour  
 Khanyisile Constance Bam  
 Roxanne Becker (with distinction in the clinical sciences and the degree with honours)  
 Nicole Michaela Bell (with distinction in the clinical sciences and the degree with honours)  
 Unathi Beni  
 Neethu Benny Varghese (with distinction in the basic sciences and clinical sciences and the degree with first class honours)  
 Sibulele Binqela  
 Nomcebo Kuhlesbonge Nosipho Biyela  
 \*Justice Gerald Bloemberg  
 Hlohonolofatso Litha Lethu Bookholane  
 Amy Booth (with distinction in the basic sciences and clinical sciences and the degree with first class honours)  
 Janine Rouche Brandt  
 Katie Grace Brazier (with distinction in the basic sciences and clinical sciences and the degree with first class honours)  
 Lara Jane Broderick  
 Michael Lance Brombacher (with distinction in the clinical sciences and the degree with honours)  
 \*Liam Andrew Carey  
 Bajabulile Qweneth Nontsikelelo Cele  
 Danielle Victoria Chantrain (with distinction in the clinical sciences)  
 Sarisha Chetty (with distinction in the clinical sciences and the degree with honours)  
 Emily Iona Chetwin (with distinction in the clinical sciences and the degree with first class honours)  
 Peter (jnr) Farai Chigumadzi  
 Precious Chikura (with distinction in the clinical sciences)  
 Tegan Jayne Child-Villiers (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Suzanne Clift (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Joshua Chris Czech

Suhail Dada (with distinction in the clinical sciences and the degree with honours)

Kesiah Juliet Davidowitz (with distinction in the clinical sciences and the degree with honours)

Tahir Saleem Dawood (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Jonathan Day (with distinction in the clinical sciences and the degree with honours)

Sachin Kumar Deenadayalu (with distinction in the clinical sciences and the degree with honours)

Keisha De Gouveia (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Preannka Payal Dehaloo

Ngoanamokomane Tokelo Diale

Kelly Andrea Dick

Kristan Joan Donson

Alessandr  Dos Santos

Kira Michaela D sterwald (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Ememabasi Adebayo Edem

Hannah Essack

Shaheen Essack (with distinction in the clinical sciences and the degree with honours)

Shanneleigh Chante Flusk (with distinction in the clinical sciences)

Tayla Fourie

Mohammad israr Ghanty

Alessio Pio Giuricich (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Justin Lee Govender

Amina Bibi Guffar

Siza Gusha

Lubabalo Guzana

Shimwe Ndimurwimo Alex Gwimo (with distinction in the clinical sciences)

Richard Paul Halley-Stott (with distinction in the basic sciences and clinical sciences and the degree with honours)

Shannon Jean Harries (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Michael John Thomas Harrison (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Mugammad-Ameen Hendricks

Wendy Hine

Michelle Jane Horak (with distinction in the clinical sciences)

Lara Caitlin Hornby

Matthew Christopher How Saw Keng

Sarah Gabrielle Ive (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Avela Jama

\*Rushin Jansen

Idrees Jhazbhay (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Zine Thembele Karen Jobela

Gloria Sinovuyo John

Busisiwe Mbale Kabane

Sameenah Kadodia

Darielle Kellermann

Sandisiwe Kema

Siphwinhlanhla Mandisa Keswa

Gauta Kgomo (with distinction in the clinical sciences and the degree with honours)

Muhammed Ejaz Khan

Thakhani Khorombi

Jeong Tae Kim

Minse Sean Kim (with distinction in the clinical sciences and the degree with honours)

Matthew John Koekemoer (with distinction in the clinical sciences)

Shaneen Kooverjee (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Ndiphe Krune (with distinction in the clinical sciences and the degree with honours)

Kgadi Clementine Lekgoathi

Tumiso Lesego Lenong

Andrea Kay Le Roux

Oratile Mmule Letebele

Yifan Joshua Li (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Zahra Logday

Sheila Nansamba Lubega

Nonhlanhla Patience Lunga

\*Mandhir Lutchman

\*Ayanda Ziphozethu Luthuli

Amy Joy Macfarlane (with distinction in the clinical sciences and the degree with honours)

Craig Cameron Mackay (with distinction in the clinical sciences and the degree with honours)

Asemahle Madlingozi

Bevuya Mahamba

Okhule Mahlangeni

Zanokuhle Njabulo Majози

Molebogeng Lerato Makamedi

Jahelihle David Makhabane

Mmathabo Thuto Makhele

Asaph Thabang Makhura

Stacey Malan

Madimetja Kamogelo Julius Mamashela

Mafage Daniel Mangena

Lampshe Edward Manthata

Samantha Lynn Marchant (with distinction in the clinical sciences)

\*Mamponyane Mercy Masemola

Nondumiso Grace Masondo

Tiyisani Zelda Lunghani Maswanganye

Sebenzile Trinity Mathenjwa

Landokuhle Mavimbela

Nandi Baduduzile Mayaba

Luvo Nation Mbobo

Dale James Mcwilliam

Lindokuhle Mdlenyani

Sinqobile Lihlithemba Mdletshe (with distinction in the clinical sciences)

Aphiwe Meyiwa

Oyama Mfeketho

Sambesiwe Khatala Mfenyana

Samantha Valentine Mhangwane

Natalie Upile Minofu

Thandani Mlambo

Valerie Mandisa Mlotshwa

Sibusiso Mntambo

Mahlogonolo Makgomu Modipane

Nokwazi Moffat

Boitumelo Moloi

Husna Moola (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

Aisha Moolla (with distinction in the clinical sciences and the degree with honours)

Haroon Moolla (with distinction in the basic sciences and clinical sciences and the degree with first class honours)

- Siphosethu Khanya Moonieya (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Sihle Mosehle
- Alexandra Francis Mould (with distinction in the basic sciences and clinical sciences and the degree with honours)
- Asiphile Moyake
- Elisa Moyane (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Ziph'Ezinhle Matshidiso Moyo
- Noxolo Ntandoyenkosi Mpangase
- Lwazi Zola Mpuku
- Carol Naidoo
- Thoshar Yatinraj Naidoo
- \*Dhivian Nair
- Yashodhan Mannadiar Nair (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Anastacia Caroline Namanyane
- Lamisa Naushin (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Rowan Robin Nelson
- Sedzani Nematshema
- Luyanda Zamokuhle Ngongoma
- Promise Ngoveni
- Naledi Yolisa Nkabinde
- Nnedima Ruth Ijeoma Nkado (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Lehlohonolo Richard Ntlatlapo
- Siyabonga Excellent Ntuli
- Efosa Ohonba (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Kathleen Joanna Olmesdahl
- Tebello Babra Palo (with distinction in the clinical sciences)
- Galima Pandey
- Mogamad Ali Parker
- Amy Frances Paterson (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Sridhar Pather
- Lilibet Perez Monserrat (with distinction in the clinical sciences)
- Clare Christine Phillips (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Aasief Pillay
- \*Phumi Lisbeth Ramolefo
- Queen Ledile Ramoraswi
- Angelique Antoinette Remley
- Eden-Eve Repapis (with distinction in the clinical sciences and the degree with honours)
- Laylah Ryklief (with distinction in the clinical sciences and the degree with honours)
- Elisheva Sara Sacks (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Yusha Salie
- Jodie Schilder (with distinction in the clinical sciences and the degree with honours)
- Kim Kelly Schilder
- Sean Schoeman
- Lynette Francis Schoenst (with distinction in the clinical sciences and the degree with first class honours)
- Chantel Schreuder (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- André Schwartz
- \*Chiraag Seedat
- Zime Nobuhle Shabalala (with honours)
- Stephanie Shaw Ferreira (with distinction in the basic sciences and clinical sciences and the degree with honours)
- \*Wonderboy Nsizwa Sibisi (with distinction in the clinical sciences)
- Thabile Sikade
- Priyanka Singh (with distinction in the clinical sciences)
- Tamryn Ann Smith (with distinction in the clinical sciences and the degree with honours)
- Tracy-Lee Splinter (with distinction in the clinical sciences)
- Dylan Victor Stallenberg (with distinction in the clinical sciences and the degree with honours)
- Nicola Stephanie Steinhaus (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Angelique Juliet Taljaard (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Lois Munorwei Tarwa
- Tahseen Lwazi Tayob (with distinction in the clinical sciences)
- Tennille Julia Thomas (with distinction in the clinical sciences)
- Gloria Kanku Tshimbidi
- Denga Tshitangano
- Ongako Phumla Tshomela
- Mihlali Qamaninande Tyilo
- Mishka Ajit Valjee (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Simone Claire Van Der Merwe (with distinction in the clinical sciences)
- Philip Marcel Van Niekerk
- Mihlali Phetha Vezi
- Johnathan Daniel David Watts (with distinction in the clinical sciences)
- Ashley Wetherill (with distinction in the clinical sciences and the degree with honours)
- Chad Mequel Whittles (with distinction in the clinical sciences)
- Justine Grace Wooding (with distinction in the basic sciences and clinical sciences and the degree with first class honours)
- Nosipho Sindi Ximba
- Philip Michael Joshua Zinn
- \*Nokulunga Fortunate Zulu

DEGREE OF DOCTOR  
OF PHILOSOPHY

*In Chemical Biology:*

Bianca Amos-Brown  
Thesis Title: *Isolation and characterisation of novel DNA aptamers against Mycobacterium tuberculosis biomarkers: new tools for tuberculosis diagnostics*

Bianca Amos-Brown completed an undergraduate degree at the University of the Free State and BScMedScHons in Medical Biochemistry at UCT. She was subsequently accepted for PhD study at UCT in the Department of Integrative Biomedical Sciences.

Bianca Amos-Brown's thesis reports an evaluation of the potential clinical utility of several Mycobacterium tuberculosis-derived urinary biomarkers, namely lipoarabinomannan (LAM) and 6 kDa early secretory antigen (ESAT6), in



distinguishing patients with tuberculosis disease from controls and identifies human proteins that confound antibody-based assays for these biomarkers. Her thesis then reports the in vitro selection, sequence analysis and biophysical characterisation of several novel, chemically-modified DNA aptamers that bind to LAM and ESAT6. Her research thus establishes viable methodology for the development of novel point of care diagnostic tests for tuberculosis, through aptamer-based detection of specific M. tuberculosis-derived proteins or glycolipids in peripheral fluids.

*Supervisor:* Professor J Blackburn  
(Integrative Biomedical Sciences)

Lizelle Lubbe

*Thesis Title: Investigating domain-selective angiotensin converting enzyme inhibition and oxidative inactivation*

Lizelle Lubbe completed her BSc in Biochemistry at the University of Pretoria in 2011 and her BMedScHons in Medical Biochemistry in 2012. She registered for her MSc in Medical Biochemistry in 2013 and upgraded to a PhD in 2015.

Lizelle Lubbe's thesis explores the structure-function relationship of angiotensin converting enzyme (ACE) whose N-domain inactivates an antifibrotic peptide, acetyl-SDKP. N-domain-selective inhibition with resulting acetyl-SDKP accumulation shows promise for fibrosis treatment. She investigates the molecular mechanisms for N-domain-selective inhibition by compound 33RE and irreversible catalytic inactivation by Cu-Gly-Gly-His-Lisinopril (CuGGHLis) using site-directed mutagenesis, enzyme kinetics and molecular dynamics (MD) simulations. This highlights how the N-domain's dynamic behaviour facilitates inhibitor binding, leading to compound 33RE's remarkable 1000-fold selectivity. CuGGHLis-mediated oxidative inactivation is observed exclusively in the N-domain, while the C-domain is susceptible to diffuse radicals. The role of unique N-domain glycans in diffuse radical shielding is studied using MD simulations and a description of unique C-domain diffuse radical access tunnels is given. This study demonstrates the

utility of combining in vitro and in silico approaches to reveal how subtle amino acid or glycosylation differences between the highly homologous domains influence their dynamic behaviour.

*Supervisor:* Professor ED Sturrock  
(Integrative Biomedical Sciences)  
*Co-supervisor:* Professor BT Sewell  
(Integrative Biomedical Sciences)

Kehilwe Confidence Nakedi

*Thesis Title: Comprehensive definition of Ser/Thr/Tyr phosphorylation in mycobacteria: towards understanding reprogramming of normal macrophage function by pathogenic mycobacteria*

Kehilwe Nakedi completed her undergraduate and master's degrees at the University of Kwa Zulu Natal and was subsequently accepted for PhD study at UCT's Department of Integrative Biomedical Sciences.

Kehilwe Nakedi's thesis reports the differential mass spectrometry-based analysis of the phosphoproteome of Mycobacterium smegmatis and Mycobacterium bovis BCG. Her analysis showed that the slow-growing, pathogenic M. bovis BCG has more extensive phosphorylation-dependent control mechanisms compared to the fast-growing, non-pathogenic M. smegmatis, with protein phosphorylation networks regulating inter alia cell wall biosynthesis, elongation, cell division and response to stress. Kehilwe Nakedi then identified the specific mycobacterial and host substrates for one mycobacterial kinase, PknG, using in vitro cultured cells and macrophage infection models. Through this analysis, her research showed that PknG phosphorylates and regulates 23 mycobacterial kinases and 69 host kinases; bioinformatic network analysis of these data suggests that PknG dysregulates the cytoskeleton of host macrophage upon infection, thereby contributing to blockade of phagosome-lysosome fusion through scrambling of host signalling. Her research paves the way for development of novel anti-tubercular treatments, based on restoring normal macrophage signalling.

*Supervisor:* Professor J Blackburn

(Integrative Biomedical Sciences)  
*Co-supervisor:* Dr N Da Cruz Soares  
(Integrative Biomedical Sciences)

Muneerah Smith

*Thesis Title: An immunoproteomic approach to identifying cancer-associated autoantibody biomarkers*

Muneerah Smith completed her undergraduate at Stellenbosch University and her Masters degrees at the University of Cape Town and was subsequently accepted for PhD study at University of Cape Town in the Department of Integrative Biomedical Sciences.

Muneerah Smith's thesis reports the quantitative, cancer antigen protein microarray-based analysis of the autoantibody composition of serum samples from individuals with colorectal cancer or melanoma. She developed a new statistical analysis pipeline for her experimental data and, identified novel autoantibody biomarker candidates that distinguish healthy controls from colorectal cancer patients. Her research also identified novel autoantibody biomarker candidates that distinguish healthy controls from melanoma patients. She then went on to develop novel protein microarray-based methodology to analyse the effect of citrulline modifications on autoantibody responses in colorectal cancer patients. Muneerah then further developed a novel immunoprecipitation-mass spectrometry-based approach to identify novel autoantigens in colorectal cancer patients and validated by her protein microarray datasets. Her research thus paves the way for development of novel point of care diagnostic tests for colorectal cancer and melanoma.

*Supervisor:* Professor J Blackburn  
(Integrative Biomedical Sciences)

*In Clinical Pharmacology:*

Eric Hermann Decloedt

*Thesis Title: Treatment of HIV associated neurocognitive disorders*

Eric Decloedt holds an MBChB from the University of the Free State. He specialised at UCT in Clinical Pharmacology where he obtained his MMed in 2011.

He is currently a specialist Clinical Pharmacologist at Tygerberg Hospital.

Eric Decloedt's thesis focuses on the treatment of HIV associated neurocognitive disorders in Black South African HIV-infected patients. He conducted a randomised placebo-controlled trial to assess the efficacy of lithium to improve neurocognition in patients with moderate to severe HIV associated neurocognitive disorders despite treatment with antiretroviral therapy. He found that lithium does not improve neurocognition. He investigated genetic associations with plasma and cerebrospinal fluid exposure of antiretroviral drugs and explored the relationship between antiretroviral drug concentrations and neurocognitive performance. He identified several novel genetic associations with exposure to the antiretroviral efavirenz and its metabolites in cerebrospinal fluid and plasma.

*Supervisor:* Professor G Maartens (Medicine)

*Co-supervisors:* Professor JA Joska (Psychiatry and Mental Health); Dr PZ Sinxadi (Medicine)

*In Clinical Science & Immunology:*

\*Fatoumatta Darboe

Thesis title: *Transcriptomic signatures of recurrent tuberculosis disease and treatment response in HIV-infected individuals*

Fatoumatta Darboe holds a BSc (University of The Gambia) and an MPhil (Open University, UK). Prior to joining UCT's Division of Immunology, she worked on vaccine trials and tuberculosis immunology at the Medical Research Council Unit, The Gambia.

Fatoumatta Darboe's thesis focuses on the evaluation of novel biomarkers for tuberculosis in participants with HIV co-infection. She investigated the diagnostic utility of transcriptomic signatures based on interferon stimulated genes, and their predictive potential for recurrent TB disease. She further investigated if these signatures can be used to monitor TB treatment response. She discovered that these signatures perform well to diagnose active TB, predict recurrent TB disease prior to clinical diagnosis, and classify rapid from

slow TB treatment responders. However, diagnostic performance in HIV-infected persons was lower than that seen in HIV-uninfected persons, which she attributes to the effect of plasma viral load, a known inducer of interferon stimulated gene expression. She proposes that HIV-infection and detectable plasma viral load decrease the diagnostic and prognostic accuracy of such gene expression signatures. Effective virological suppression by antiretroviral treatment is likely to markedly improve performance of these signatures.

*Supervisor:* A/Professor TJ Scriba (Pathology)

*Co-supervisor:* Dr A Penn-Nicholson (Pathology)

Erin Lesley Logan

Thesis Title: *Early-life immunity and susceptibility to Mycobacteria*

Erin Logan holds a BSc (Microbiology and Physiology) and a BMedScHons in Infectious Diseases and Immunology from UCT. She started her MSc in the UCT Health Sciences Faculty in 2013 and subsequently upgraded her degree to PhD in 2014.

Erin Logan's thesis focuses on how the development of the infant immune system is influenced by vaccination and maternal infection history. She relates how these inputs affect the likelihood of an infant acquiring Mycobacterium tuberculosis (Mtb) infection and answers these questions with clinical samples and animal models. Her principal findings are (1) that raised antibody levels strongly associate with reduced risk of infants (younger than 24 months) acquiring Mtb infection, and (2) this antibody-dependent protection associated with Bacillus Calmette-Guérin (BCG) and measles vaccinations. As these findings were made in infants, it is likely that, in part, these antibodies originate from the mother. Animal models which were used to test this likelihood found that maternal helminth infection can confer heterologous protection against Mtb in offspring, protection which is maintained through to adulthood. The studies in this thesis demonstrate that early-life and/or maternal immune influences play a critical role in protecting infants from acquiring Mtb infections.

*Supervisor:* A/Professor WGC Horsnell (Pathology)

*Co-supervisor:* Professor M Hatherill (Pathology)

Nada Abdel Aziz Mohamed Abdel Rahman Ahmed

Thesis Title: *The control of Foxp3+ regulatory T cell by Interleukin-4 receptor alpha-mediated signaling*

Nada Mohamed Abdel Rahman Ahmed holds a BSc and an MSc in Biotechnology from the University of Cairo, Egypt. She joined the School of Medicine at UCT in 2016 for her PhD studies. Before joining UCT, she was investigating the mechanism by which cysteine peptidase-based vaccine confers protection against schistosomiasis.

Nada Mohamed Abdel Rahman Ahmed's thesis focuses on investigating the role of Interleukin-4 receptor alpha (IL-4R $\alpha$ )-mediated signalling on Foxp3+ regulatory T (Treg) cells under steady-state and inflammatory conditions. She starts by investigating the expression level of IL-4R $\alpha$  on Foxp3+ Treg cells under steady-state and helminth infection. She then uses a new transgenic mouse model whereby IL-4R $\alpha$  is specifically deleted on the Foxp3+ Treg population. She demonstrates that even though Foxp3+ Treg cells might not need IL-4R $\alpha$  to maintain homeostasis under steady-state in young mice, under helminth infection conditions, these cells do require an intact IL-4R $\alpha$ -mediated signalling for their survival and maintenance of suppressive functions to control immune responses that drive exacerbated tissue inflammation. She uncovers a positive role for IL-4R $\alpha$  mediated signalling in the biology of Foxp3+ Treg cells, providing insights into the mechanisms of Foxp3+ Treg regulation that are highly relevant for the therapeutic control of inflammation during infectious diseases.

*Supervisor:* Professor F Brombacher (Pathology)

*Co-supervisor:* Dr J Nono Komgwep (Medicine)

*In Emergency Medicine:*

Simpiwe Sobuwa

Thesis Title: *A critical realist study into the emergence and absence of academic success among Bachelor of Emergency Medical Care students*

Simpiwe Sobuwa holds MSc (Medicine) in Emergency Medicine from UCT. He is the Head of Department at the Department of Emergency Medical Care, Durban University of Technology and is the Vice-Chair of the Professional Board for Emergency Care, Health Professions Council of South Africa.

Simpiwe Sobuwa's thesis explores academic success in the four-year Bachelor of Emergency Medical Care degree in South Africa by using critical realism as the philosophical framework for the study. In light of the shortage of paramedics in South Africa, understanding factors that contribute to academic success may increase the number of emergency care providers. He used an online survey to students and semi-structured interviews for both staff and students to understand what causes students to be successful or unsuccessful in the four-year Bachelor of Emergency Medical Care degree. He found that students with a pre-existing emergency care qualification and who were non-White were more likely to succeed in the degree. Biological, socioeconomic, socio-cultural, normative, psycho-social and psychological factors were associated with students being unsuccessful in the degree while psychological, psycho-social, normative and socioeconomic factors were responsible for academic success.

*Supervisor:* A/Professor S Bruijns (Surgery)

*Co-supervisor:* A/Professor B Lord (Paramedic Science, University of the Sunshine Coast)

James Vassallo

Thesis Title: *Major incident triage: development and validation of a modified primary triage tool*

James Vassallo holds a MBBS Medical degree from the University of London, and is a serving medical officer with the Royal Naval Medical Service, undertaking specialist training to become an Emergency Medicine Specialist. He joined UCT in 2013 as an international student to start his PhD studies.

James Vassallo's thesis focuses on the identification of adult patients involved in major incidents who are in need of a life-saving intervention. Existing methods of major incident triage demonstrate poor performance at identifying these patients, with high rates of mis-classification of the seriously injured. Additionally, with a lack of evidence to support the use of existing methods of major incident triage, he undertook his PhD studies to create a novel, evidence-based triage tool. The output of his study was the development of the Modified Physiological Triage Tool 24 (MPTT-24), which outperformed all existing methods of triage at identifying patients in need of a life-saving intervention in both UK military and civilian populations. The MPTT-24 has been adopted by both the UK Military and the National Health Service for the purposes of initial triage at a major incident.

*Supervisor:* Professor LA Wallis (Surgery)

*Co-supervisor:* Professor JE Smith (Emergency Department, University Hospitals Plymouth NHS Trust)

*In Exercise Science:*

Mary Ann Dove

Thesis Title: *Socio-ecological factors in talent development in cricketers in a diverse society*

Mary Ann Dove holds a BSc(Med)(Hons) degree in Sport Science from UCT. After 25 successful years consulting in corporate and sports environments, she returned in 2012 to complete her PhD studies.

Using a qualitative methodology, Mary Ann Dove's thesis

focuses on the role that environmental and contextual factors play in talent development of male cricketers in a diverse society. The perceived effectiveness of an ethnic target intervention at the elite level in South African cricket was explored. Environmental factors such as socio-economic status, sporting culture, cricket organisational issues, family circumstances, schooling opportunities and coaching were shown to impact on a cricketer's ability to progress to the elite level. Five talent development components affect progress: (1) access to opportunities and competition, (2) holistic player development, (3) effective support networks, (4) inclusive team environments, and (5) adaptive mind-sets. Various intrapersonal characteristics play an additional role in achieving elite cricketing success. An ethnic target policy alone is not an effective intervention for developing cricket talent. Her socio-ecological framework of talent development in cricketers in a diverse society contributes to further understanding how cricket expertise is achieved.

*Supervisor:* Dr C Draper (Human Biology)

*Co-supervisors:* Dr J Gray (Human Biology); Dr S Taliep (Sport Management, Cape Peninsula University of Technology)

Nicola Ann Sewry

Thesis Title: *The effectiveness and implementation of the BokSmart Safe Six Injury prevention programme*

Nicola Sewry completed her BSc in Biochemistry and Human Kinetics and Ergonomics at Rhodes University, before moving to UCT to study for a BMedScHons (Biokinetics) and an MSc in Exercise Science at UCT. Her doctoral work is a joint project between UCT and Vrije University Medical Centre, Amsterdam.

Nicola Sewry's thesis evaluated SA Rugby's BokSmart Safe Six injury prevention programme. This programme was designed to be incorporated into the warm-up before training and matches with the goal of reducing injuries. She investigated overall injury rates at annual



youth tournaments and seasonal injury rates in youth rugby. She conducted a cluster-randomised controlled trial using six schools in the Western Cape to evaluate the Safe Six programme and showed the Safe Six programme was associated with some improvements in the injury risk profiles of the players. She also assessed the players' and coaches' knowledge and awareness of the Safe Six over three years and showed that their knowledge and awareness increased due to coach education and social media strategies. Her thesis has provided useful information for BokSmart and SA Rugby for future use in implementing national injury prevention programmes.

*Supervisors:* Professor M Lambert (Human Biology); Professor W van Mechelen (VU University Medical Centre, Amsterdam)  
*Co-supervisors:* Dr J Brown (Human Biology); Professor E Verhagen (VU University Medical Centre, Amsterdam)

Simone Annabella Tomaz  
*Thesis Title: Physical activity and gross motor skills in rural South African pre-school children*

Simone Tomaz completed her BA (Sport Science) degree at Stellenbosch University and her BMedScHons and MPhil (Biokinetics) qualifications at UCT. She started her PhD study in the Division of Exercise Science and Sports Medicine in 2015.

Simone Tomaz's thesis reports on physical activity (PA) and gross motor skills (GMS) of preschool-aged children from Agincourt, a rural village in Mpumalanga. The findings were intended to inform an intervention to reduce overweight/obesity through increased PA and improved GMS. She reports that preschool-aged children engage in high volumes of PA and display good GMS proficiency, despite minimal teacher involvement and limited equipment to support PA and the development of GMS. Therefore, developing an intervention to reduce overweight/obesity in Agincourt using interventions that aim to increase PA and/or improve GMS, is not justified in this community. These findings have highlighted the importance of conducting exploratory research

within a disadvantaged community before developing and implementing interventions. Furthermore, the findings reported in this thesis has identified several other avenues for research pertaining to the development of preschool-aged children in rural South Africa, for which PA and GMS may be significant contributing factors.

*Supervisor:* Dr C Draper (Human Biology)  
*Co-supervisors:* Dr T Hinkley (Exercise and Nutrition Sciences, Deakin University);  
Dr R Jones (Education, University of Wollongong)

*In Medical Biochemistry:*  
Shatha Omar  
*Thesis Title: Characterisation of HIV-1 subtype C envelope functional determinants of dual infected individuals*

Shatha Omar holds an MSc degree in Biotechnology from the University of Kerala, South of India. She joined the Faculty of Science at UCT in 2010 for her PhD studies and transferred to the Department of Integrative Biomedical Sciences in the Faculty of Health Sciences in 2016.

Shatha Omar's thesis focuses on understanding how HIV-1 is able to adapt to the host environment to ensure survival. She investigates which viral function is most responsible for driving adaptation. She focuses on South African women who are infected with more than one strain of virus. She firstly identifies viruses that adapt rapidly to the host environment because they infect cells more easily. She then investigates why they are advantaged and finds the majority carry protein that allow virus and cells to fuse better than others. She extends her research to establish the effect on the women's health if infected with these viruses, finding some have low CD4 count levels and will progress to AIDS rapidly. She also finds that this effect is different depending on the woman and she suggests that vaccines that target the protein in question can either stop the virus or help it adapt faster.

*Supervisor:* Dr Z Woodman (Integrative Biomedical Sciences)

*In Medical Virology:*  
David Harris Onywera  
*Thesis Title: A study of the genital microbiotas of black South African women and men: associations with human papillomavirus and HIV infections*

Harris Onywera holds a BSc (Biochemistry) from the University of Nairobi (Kenya) and an MSc (Bioinformatics and Computational Molecular Biology) from Rhodes University. He worked as a bioinformatician at Centres for Disease Control Kenya before joining the Division of Medical Virology, UCT, in 2014 for his PhD studies.

Harris Onywera's thesis focuses on the genital bacterial communities or microbiotas of South African women and men. He further identifies associations with human papillomavirus (HPV) and HIV, the cause of major health problems in South Africa. Persistent infection with high-risk HPV is associated with cervical and some penile cancers. His study revealed that a majority of reproductive-age African women do not have vaginal microbiotas dominated by *Lactobacillus* species that protect the vagina from pathogen infections and are considered the hallmark of vaginal health. His study of the penile microbiotas of predominantly circumcised men is the first large-scale study carried out on this population. He identifies specific genital bacteria that are potential biomarkers for HIV and HPV infections. These findings, combined with strategies to alter or modulate the microbiome, may lead to novel disease management and/or novel treatment options to promote reproductive health and prevent genital diseases.

*Supervisor:* Dr TL Meiring (Pathology)  
*Co-supervisor:* Professor A-L Williamson (Pathology)

*In Medicine:*

Dylan Dominic Barth

Thesis Title: *AFROStrep (SA):*

*a surveillance system for group A streptococcal infection in South Africa*

Dylan Barth holds a bachelor's degree in Technology from the Cape Peninsula University of Technology and a Master of Public Health from UCT. He joined the research team in the Department of Medicine during his undergraduate years, working initially as a research assistant before embarking on his postgraduate studies.

Dylan Barth's thesis focuses on the establishment of AFROStrep, the first registry and biorepository in Africa to document and investigate Streptococcus pyogenes, an organism responsible for more than 20 percent of sore throat in children and leading to Rheumatic Heart Disease, a major contributor to death in Africa. His research confirmed the high burden of infection among people living in Africa and highlights the importance of comprehensive surveillance to best inform prevention and control strategies. Finally, Dylan Barth's research provides novel insights into the molecular characterisation of Streptococcal infection in South Africa, which informs the development of a vaccine currently underway.

*Supervisor:* A/Professor M Engel

(Medicine)

*Co-supervisor:* late Professor B Mayosi

(Medicine)

Dilys Melanie Berman

Thesis Title: *Variations in pollen and fungal spore air spora: an analysis of 30 years of monitoring for the clinical assessment of patients in the Western Cape*

Dilys Berman qualified as a Medical Technologist in the UCT Health Sciences Faculty. She obtained a BA (South Africa) and a BAHons while working in the Department of Paediatrics at Red Cross Children's Hospital.

Dilys Berman began studying towards her PhD in 2013 after monitoring pollen and fungal aeroallergens for three decades, using a volumetric spore trap to

sample the air from the roof of the hospital. She expanded this research to study the air spora at further sampling sites in Cape Town. From the 30-year database so built she mapped and compared the allergenic pollen and fungal spores, defined the seasonal limits of the major aeroallergens found in the atmosphere of Cape Town and adapted a formula for predicting the start of the grass flowering season. She has shown that there are distinct differences between the seasons and spectra of the aeroallergens in different areas. These findings will be applied to the diagnosis, treatment and immunotherapy regimes in clinical allergy practice and research.

*Supervisor:* Emeritus Professor PC Potter  
(Medicine)

*Co-supervisor:* Emeritus Professor JG Peter  
(Medicine)

Aqeela Imamdin

Thesis Title: *Targeting heart rate as a novel therapeutic approach in acute heart failure*

Aqeela Imamdin completed her undergraduate studies at UCT. She followed this with an MSc in Medicine at the Hatter Institute for Cardiovascular Research in Africa, Department of Medicine, UCT, before starting her doctoral research in the same department.

Acute heart failure (AHF) has a high mortality rate, and current pharmacological therapies are insufficient to reduce this. Aqeela Imamdin's thesis focuses on the potential benefit of modulating heart rate in AHF. In a retrospective clinical study, she observed persistent elevated heart rate in peripartum cardiomyopathy (PPCM) patients treated under standard therapy. Subsequently, she explored the benefit of chronic treatment with ivabradine (which targets the sinoatrial node to reduce heart rate) in animal models of AHF, as observed in PPCM, in haemorrhagic shock or in Takotsubo cardiomyopathy. In PPCM mouse model, modulation of the heart rate limited development of cardiac fibrosis. In ex vivo models of AHF, ivabradine improved cardiac function, apparently independently of heart rate modulation. Her findings suggest that ivabradine may benefit patients suffering from AHF,

although its mechanism remains unclear.

*Supervisors:* Professor S Lecour  
(Medicine)

*Co-supervisors:* Dr F Azibani  
(Medicine); Professor K Sliwa-Hahnle  
(Medicine);

Dr J McCarthy (City of Cape Town)

Babu Muhamed

Thesis Title: *The genetics of rheumatic heart disease in Africans*

Babu Muhamed holds a bachelor's degree in Microbiology from the University of Zululand, an honours degree in Medical Microbiology from the University of Pretoria and a master's degree from UCT where he studied the molecular epidemiology of group A streptococcus amongst children with sore throats in Cape Town.

Rheumatic Heart Disease results from the interaction between host genes, streptococcal bacteria, and social conditions of poverty. Babu Muhamed's study examined the Genetics of Rheumatic Heart Disease, and is the first large genetic study of rheumatic heart disease in the African population. His research methods included a systematic review and meta-analysis on all available literature, and a genome-wide association study in 1,843 RHD cases and 1,510 healthy controls from eight African countries. Babu Muhamed's research confirmed genetic susceptibility in Africans and highlighted the sharing of susceptibility genes between rheumatic heart disease and other autoimmune diseases such as Crohn's disease and Ulcerative Colitis. This thesis provides novel insights into the crucial understanding of the disease mechanisms in rheumatic heart disease.

*Supervisor:* late Professor B Mayosi  
(Medicine)

*Co-supervisors:* A/Professor M Engel  
(Medicine); Dr G Shaboodien  
(Medicine);

Dr G Pare (McMaster University)

*In Neuroscience:*

Jean-Paul Fouche

Thesis Title: *Structural brain connectivity of HIV-positive children: a graph network analysis study*

Jean-Paul Fouche holds a BSc in Human Life Sciences and MSc degree in Medical Physiology from the University of Stellenbosch. He joined the Department of Psychiatry and Mental Health at UCT for his PhD studies in clinical neuroscience.

Jean-Paul Fouche's thesis focuses on the investigation of brain structure in children born infected with HIV. Children were scanned with magnetic resonance imaging, and data were analysed using a graph theory approach. Brain areas affiliated with language, social and cognitive development showed a different pattern of connections in children with HIV, compared to healthy children. This project is especially relevant to South Africa and other lower to middle-income countries in the world where there are large populations of children who have been infected with HIV at birth. This work also forms the basis for further investigation of brain changes over time in this cohort of children.

*Supervisor:* Professor DJ Stein (Psychiatry and Mental Health)

*Co-supervisors:* Professor J Hoare (Psychiatry and Mental Health); Professor E Meintjes (Human Biology)

Patricia Cathryn Swart

Thesis Title: *The effects of prenatal and early-postnatal ethanol exposure on rat brain neurochemistry and behaviour*

Patricia Swart has a BSc in Human Physiology and Genetics, and a BMedScHons in Physiology from UCT. She has presented her work at several local and international conferences, and in 2015 she upgraded to PhD.

Patricia Swart's thesis presents protein changes in the brain after alcohol exposure using animal models of fetal alcohol spectrum disorder (FASD). The proteomic profiles of the prefrontal cortex and hippocampus demonstrate a wide-range of long-term, region-specific ethanol-induced protein changes. The

results highlight the importance of timing, pattern, route of ethanol administration and age at analysis. In addition, Patricia accounted for the possibility of additional early-life adversity, which is likely to occur after prenatal-alcohol exposure, by pairing an animal model of FASD with the maternal separation model of early-life stress. Interestingly, maternal separation stress reduced prenatal-ethanol-induced changes in behaviour and proteins in the brain. This highlighted a significant interaction between prenatal-alcohol exposure and early-life stress. The results presented in this thesis contribute valuable insight to the field of FASD by providing a better understanding of ethanol's effect on the brain and the complexity of animal models used to study this multifaceted disorder.

*Supervisor:* Emeritus Professor VA Russell (Human Biology)

*Co-supervisor:* Dr J Dimatelis (Human Biology)

*In Occupational Therapy:*

Franciscus Catharina Wilhelmus Kronenberg

Thesis Title: *Everyday enactments of humanity affirmations in post 1994 apartheid South Africa: a phronetic case study of being human as occupation and health*

Frank Kronenberg holds a BSc in Occupational Therapy and a BA in Education (Netherlands). Before settling in South Africa in 2006, he worked internationally with diverse populations in challenging conditions, and co-authored several landmark publications. He is an invited scholar-lecturer at universities in North and South America and Europe.

Frank Kronenberg's thesis is positioned on 'the moving line' between occupational science and occupational therapy. It focuses on how people in the everyday context of post 1994 South Africa, an historically violent-wounded-divided society which remains stuck in a vicious dehumanised/ing condition, can act in ways that are affirming of our humanity. While recognising obstructing forces, he further examines possibly enabling factors of such enacted humanity affirmations. He draws from a collective

of nine narrative exemplars, selected because they are expected to resonate widely within South Africa. The main findings include that being human is not a given but a political possibility, a radically relational act, and that doing well together as humanity can be advanced by cultivating shared identity-integrity. These insights call for occupational therapy to advance an understanding of being human as occupation and health in order to enable contemporary South Africa to bring about humanisation and healing.

*Supervisor:* Professor H Kathard (Health Sciences Education)

*Co-supervisors:* Professor E Ramugondo (Health and Rehabilitation Sciences); A/Professor DL Rudman (Occupational Therapy, University of Western Ontario)

*In Paediatrics:*

Aneesa Vanker

Thesis Title: *Indoor air pollution and environmental tobacco smoke exposure in a South African birth cohort study*

Aneesa Vanker, a paediatric pulmonologist, holds a FCPaed and Certificate in Paediatric Pulmonology from the Colleges of Medicine, South Africa. She completed her MBChB at UKZN and MMed at Stellenbosch University. She has been a specialist and clinical researcher at Red Cross War Memorial Children's Hospital, UCT since 2011.

Aneesa Vanker's thesis focuses on the impact of early-life environmental exposures from indoor air pollution (IAP) and environmental tobacco smoke (ETS) exposure on child health and lung disease in the Drakenstein Child Health Study, a South African birth cohort study. She investigated the effects of these exposures by measuring IAP in participants' homes in the antenatal and postnatal periods and quantified ETS exposure using urine cotinine measures in mothers and infants. Her findings show that these exposures negatively impact on child health including, birth outcomes, lower respiratory tract infections and wheezing illness and nasopharyngeal bacterial carriage. She further highlights the antenatal period and early life as a

critical period for lung development, and identifies novel exposures as impacting on child health. This work provides unique South African epidemiological data which is also relevant to other low middle-income settings particularly in Africa.

*Supervisor:* Professor HJ Zar (Paediatrics and Child Health)

*Co-supervisor:* Professor RP Gie (Paediatrics and Child Health, Stellenbosch University)

*In Physiology:*

Andrea Paige Gibbon

*Thesis Title: Whole exome sequencing: a customised approach to exploring the genetic basis of musculoskeletal soft tissue injuries*

Andrea Gibbon completed her BSc and BSc(Med)(Hons) qualifications at UCT. She started her MSc in 2013, and upgraded this research to a PhD in 2015.

Andrea Gibbon's thesis presents the results from conducting whole exome sequencing on twenty well-phenotyped participants (ten healthy controls and ten cases with clinically diagnosed chronic Achilles tendinopathy). A key objective of the project was the development and application of a reusable bioinformatics analysis pipeline involving a customised tiered filtering strategy to explore the genomic dataset. New candidate variants in the COL27A1, TNC, COL1A1 and MMP-3 genes were prioritised for interrogation. Three new candidate variants were independently associated with the risk of Achilles tendinopathy and/or anterior cruciate ligament ruptures. Inferred haplotype analysis further implicated these variants in combination with other genomic loci. Andrea Gibbon explored the functional significance of these genetic signatures using a range of in silico tools. These results will contribute to the research elucidating the biological mechanisms underpinning musculoskeletal soft tissue injuries, in addition to aiding the development of multifactorial models to clinically assess injury risk.

*Supervisor:* A/Professor AV September (Human Biology)

*Co-supervisors:* Professor M Collins (Human Biology); Dr CJ Saunders (Surgery)

*In Physiology:*

Franco Henning  
*Thesis Title: Mechanisms underlying the development of weakness in idiopathic inflammatory myopathies: an in vitro single muscle fibre contractility study*

Franco Henning holds an MBChB from Stellenbosch University, a Fellowship of the College of Neurologists of SA, and a Fellowship in Neuromyology from the University of Utrecht, Netherlands. He works as a neurologist at Tygerberg Hospital. He started his PhD in the Department of Human Biology at UCT in 2014.

Franco Henning's research focuses on inflammatory muscle disease and investigates the mechanisms by which inflammation leads to the development of muscle weakness. He tests the force, shortening velocity and calcium sensitivity of single muscle cells from biopsies performed on patients affected by this disease, and compares it to muscle cells from healthy individuals. His research shows that the force of muscle cells affected by the disease is significantly impaired, but that the shortening velocity, power output and calcium sensitivity of the diseased muscle cells are higher than those of healthy cells. This suggests there is a mechanism to compensate for the impaired force production. The findings of this research indicate that inflammation not only leads to necrosis of muscle cells, but also has an effect on the contractile function of live muscle cells.

*Supervisor:* Dr T Kohn (Human Biology)

*Co-supervisor:* Professor J Carr (Neurology, Stellenbosch University)

*In Psychiatry:*

Erica Breuer

*Thesis Title: Using Theory of Change to design and evaluate complex mental health interventions in low and middle income countries: the case of PRIME*

Erica Breuer holds a Bachelor of Applied Science (Physiotherapy) from the University of Sydney, Australia, and a Master of Public Health (Epidemiology) from UCT.

Erica Breuer's thesis critically examines the use of Theory of Change (ToC) in the design and evaluation of complex mental health interventions. She uses the example of the Programme for Improving Mental Health (PRIME), a research programme which aimed to develop, implement and evaluate the integration of mental health into primary health in districts or sub-districts in Ethiopia, India, Nepal, South Africa and Uganda. She evaluates how ToC workshops can help to strengthen the design of the interventions, increase stakeholder buy-in and develop a programme theory. She then shows how ToC can be translated into study designs and subsequently uses this as a framework to determine the causal conditions necessary and sufficient for increased service utilisation in the PRIME implementation site in Nepal. Finally, she provides a set of 10 key lessons from PRIME in the application of ToC to complex mental health interventions.

*Supervisor:* Professor C Lund (Psychiatry and Mental Health)

*Co-supervisor:* Dr M De Silva (Wellcome Trust)

*In Psychology:*

Memory Nyasha Lynnette Munodawafa  
*Thesis Title: Filling the gap: development and qualitative process evaluation of a task sharing psycho-social counselling intervention for perinatal depression in Khayelitsha, South Africa*

Memory Munodawafa completed her MSocSc in Clinical Social Work at UCT in 2010 and began part-time studies towards her PhD in Psychiatry in 2014.

Memory Munodawafa's thesis focuses on evidence-based psycho-social interventions for the treatment of perinatal depression by lay health workers in low resources settings, to fill the significant treatment gap. She uses the United Kingdom (UK) Medical Research Council MRC framework as a coherent framework in all the studies presented in this thesis. The thesis provides original data on the process of developing, implementing and evaluating a perinatal psycho-social intervention for depression. Memory uses in-depth qualitative methods that allow for a detailed investigation of the experiences



of female lay counsellors in delivering the intervention and female participants in receiving the intervention. Findings indicate that task shared interventions should be locally relevant and culturally sensitive to increase acceptability and feasibility. The thesis draws attention to how factors associated with the counsellor, intervention and participants can affect the implementation and uptake of counselling sessions.

*Supervisor:* A/Professor M Schneider (Psychiatry and Mental Health)  
*Co-supervisor:* Professor C Lund (Psychiatry and Mental Health)

*In Public Health:*

Idriss Ibrahim Kallon  
Thesis Title: *Influences on the continuity of care for patients with Mycobacterium tuberculosis referred from tertiary and district hospitals*

Idriss Ibrahim Kallon holds a BA from the University of Sierra Leone, a BSocScHons from UCT and an MTech from Cape Peninsula University of Technology. He began PhD studies in Sociology in 2012, moving to Public Health in 2015. Idriss Kallon's thesis explores factors that influence patients' continuity of TB care after referral from tertiary- or district-level hospitals to primary healthcare clinics. He used a qualitative design with semi-structured individual interviews, focus group discussions and observations. Study participants were patients diagnosed with tuberculosis at tertiary and district hospitals, healthcare workers who either treat or support patients in hospitals and clinics, patients' families and policy makers. He found that lapses in responding to patients' needs and feelings in the hospital and clinics affected patients' attendance at clinics to continue with their treatment. Patients were also not treated as partners in their own treatment process. Similarly, the socio-economic circumstances of patients significantly affected their continuity of care. His thesis followed up patients at their homes, enabling a better understanding of the challenges of continuity of care for patients who were struggling to continue with their treatment after returning home.

*Supervisor:* A/Professor CJ Colvin (Public Health and Family Medicine)  
*Co-supervisor:* Dr M Wainwright (Public Health and Family Medicine)

\*Toyib Adedamola Olaniyan  
Thesis Title: *A prospective cohort study on ambient air pollution, airborne pollen (and fungal spores) and respiratory morbidities including childhood asthma in adolescents from the Western Cape Province*

Toyib Olaniyan completed his BSc(Hons) in Physiology in Nigeria, a Graduate Diploma in Clinical Epidemiology in Canada and an MSc in Public Health in England. He registered for his PhD in 2014 with the Division of Environmental Health in the School of Public Health and Family Medicine.

Toyib Olaniyan's thesis focuses on the indoor and outdoor risk factors of short- and long-term exposures to ambient air pollutants as well as airborne pollen and fungi on asthma outcomes among school children residing in four informal settlements in the Western Cape. He studied 590 Grade-4 school children over 12 months and the effect of daily variations of air pollutants and airborne fungal spore levels on lung function during a two-week panel study. The study demonstrated deficits in lung function following short-term exposure and an increased risk of new-onset asthma outcomes over long-term exposure to ambient chemical pollutants and fungal spores. An increased risk of asthma-associated outcomes due to indoor air pollutants arising from dampness, mould and paraffin use was also evident. The high proportion of undiagnosed and untreated asthma stresses the need to reduce indoor and outdoor air pollution in informal settlements.

*Supervisor:* Professor MA Dalvie (Public Health and Family Medicine)  
*Co-supervisors:* Professor MF Jeebhay (Public Health and Family Medicine); Professor M Rössli (Public Health and Family Medicine)

*In Surgery:*  
Elsie Maria Muller  
Thesis Title: *HIV positive-to-positive transplantation*

Elsie Muller is a general surgeon who works in the field of transplantation. She obtained her MBChB at the University of Pretoria in 1995 and then completed her master's degree in 2007 at UCT. In 2008 she initiated a transplant programme for HIV positive patients utilising HIV positive donors at Groote Schuur Hospital in Cape Town.

Elsie Muller's thesis examines the need to provide a treatment option to HIV positive patients with end stage renal failure in South Africa. It focuses on the ethical decision-making at the time of starting this program, the donor selection, and the clinical outcomes of patients who received these transplants. When this study was started HIV positive patients could not access dialysis or transplantation in South Africa. As a result of this work HIV positive organs are now being utilised in many countries across the world for the purpose of transplantation. The final chapter of her thesis discusses the impact of this work on the laws in the USA, which had been changed to accommodate HIV positive-to-positive transplantation.

*Supervisor:* Emeritus Professor D Kahn (Surgery)

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# FACULTIES OF ENGINEERING & THE BUILT ENVIRONMENT AND SCIENCE

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## ORDER OF PROCEEDINGS

Academic Procession.

*(The congregation is requested to stand as the procession enters the hall)*

The Presiding Officer will constitute the congregation.

The National Anthem.

The University Dedication will be read by a representative of the SRC.

Musical Item.

Welcome by the Master of Ceremonies.

The Master of Ceremonies will present the Distinguished Teacher Award to Gregor Leigh.

The Master of Ceremonies will present Aubrey Mainza, Michael Meadows and Edgar Pieterse  
(in absentia) for the award of a Fellowship.

The Master of Ceremonies will introduce the guest speaker.

Address by guest speaker.

The graduands and diplomates will be presented to the Presiding Officer by the Deans of the faculties.

The Presiding Officer will congratulate the new graduates and diplomates.

The Master of Ceremonies will make closing announcements and invite the congregation to stand.

The Presiding Officer will dissolve the congregation.

The procession, including the new graduates and diplomates, will leave the hall.  
*(The congregation is requested to remain standing until the procession has left the hall.)*

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## **DISTINCTIONS IN THE FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

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A qualification may be awarded with distinction, honours, and first class honours where a student has shown outstanding academic achievement.

The Bachelor of Architectural Studies (BAS) may be awarded with distinction where a candidate has obtained

a minimum of 75% in the Design and Theory Studio III examination and minimum of 60% in one of the other Design and Theory Studio examinations

and an additional three marks of at least 75% in his or her BAS course work.

The degrees of Bachelor of Science in Engineering and Bachelor of Science in Geomatics may be conferred with

first class honours, where the candidate has obtained at least 75% for the research project and a weighted average of 75% for the degree or,

honours, where the candidate has obtained a minimum of a second class pass in the research project and a weighted average of 65% for the degree.

The degrees of Bachelor of Science in Construction Studies and Bachelor of Science in Property Studies may be awarded with distinction where a candidate obtains a minimum weighted average of 75% for the degree.

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## **DISTINCTIONS IN THE FACULTY OF SCIENCE**

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Bachelors degrees may be awarded with distinction

in a subject (or major), where the student achieves first class passes in specified courses

in the degree, where the student has both distinction in at least one subject (or major) and first class passes in at least the equivalent of six full courses.

Honours degrees are awarded by class (first, second class division one, second class division two, or third).

Master's degrees may be awarded with distinction

in the degree, (by dissertation) for especially meritorious work

in the degree, (by coursework and minor dissertation) for especially meritorious work for the dissertation as well as achieving 75% or better for the coursework.

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## DISTINGUISHED TEACHER AWARD

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The Distinguished Teacher Award, given once only to an individual, recognises teaching at any or all levels by a member of the faculty that has made a significant and lasting impression on students.

Previous recipients in the Faculty of Science have been:

1996	M D Picker (Zoology)
1998	I Barashenkov (Mathematics & Applied Maths)
2002	A Buffler (Physics) S Oldfield (Environmental & Geographical Science)
2003	D Gammon (Chemistry)
2004	B Davidowitz (ADP in CHED & Chemistry)
2008	J O’Riain (Zoology)
2011	G Smith (Chemistry)
2014	J Gain (Computer Science) S Wheaton (Physics)
2015	A West (Biological Sciences)
2016	D Erwin (Mathematics & Applied Maths) M Lacerda (Statistical Sciences) J Shock (Mathematics & Applied Maths)

The following member of the Faculty of Science has been chosen for this award in 2018:

**Mr Gregor Leigh**  
**Physics**

Gregor Leigh enjoys legendary status among the literally thousands of first-year engineering students whom he has taught during a UCT career spanning 20 years. According to his head of department, “I doubt that there has been such a sustained intervention by a single lecturer in the history of the modern UCT.”

The senior lecturer in Physics says that “more than any other role teaching defines who I am.” Rather than the imposition of any particular content, Gregor Leigh describes his mission as “the awakening and development of cognitive skills”, as is reflected in his teaching of explicit problem-solving strategies and also the importance that he places on matters of the meta-curriculum.

Mr Leigh’s Physics lectures are highly interactive, compact performances, strewn with perfectly-timed and engaging demonstrations of physical phenomena (often performed at some danger to his own well-being!). Through the use of carefully designed multiple choice questions and an innovative in-class polling system, students are able to self-assess, while also providing Mr Leigh with essential feedback, allowing him to tailor his interventions for the remainder of the lecture.

According to one colleague, “the life and times of Gregor Leigh serve as a case study in what can be achieved through a love of your discipline, a love of teaching, mutual respect between instructor and students, and raw stamina.” So appreciated are his efforts, that one student wrote in a course evaluation, “I wish he had not taught me so well, that I might fail and return to his class next year,” while another wrote “I have never admired an attitude towards teaching so much, I want to do better just to do his teaching justice!”

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## FELLOWSHIP

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The election by Senate of a member of the faculty to be a fellow recognises sustained and original contributions through research or creative endeavour.

The fellows in the Faculty of Engineering and the Built Environment and their years of election are:

1998:	GA Ekama
2005:	MG Alexander
2012:	V Watson
2013:	AE Lewis
2015:	S Harrison E van Steen
2017:	A Zingoni

The following member of the Faculty of Engineering and the Built Environment has been elected to a fellowship:

**Professor Aubrey Mainza**  
**Chemical Engineering**

Aubrey Mainza has made his mark in the field of minerals processing in particular focussing on grinding and classification. The extraction of valuable minerals from ore bodies is an energy intensive process. In particular, grinding of these materials can consume large amounts of energy and fundamental insights in these processes will result in significant energy savings.

Aubrey Mainza has focused his research on understanding the particulate flow of particles and slurry in the mills due to the impact this has on both throughput and grinding efficiencies in the mills. The strength of his research comes from the combination of applied and fundamental research in both comminution and classification. The research on how to improve grinding efficiencies in tumbling mill lead to the development of a single methodology that is applied in configuring operation set-points to maximise productivity by either achieving higher throughputs for low grade mines or finer grind for finely disseminated ore bodies or achieving a reduced specific energy consumption which reduces operating costs per tonne of material mined. The grind curve has been adopted as a standard optimisation methodologies by many mining companies. Research from the particle tracking system has provided insights on the dominant breakage mechanisms within the milling systems that are studied.

Aubrey Mainza has also contributed significantly to the development and description of hydrocyclones, which are important devices in the separation of coarse and fine particles in the mining flowsheet. He has contributed to the area of classification by developing models for use in design and optimisation of hydrocyclones. Most models applied consider the behaviour of an average density particle and the description is limited to dilute suspensions. Professor Mainza and co-workers have developed a general model based on average density but can also handle suspensions ranging from very dilute to concentrated slurries with a reasonably good accuracy and can be applied for both design and optimisation. Further, the model has been extended to capture the behaviour of different density particles in the hydrocyclone which is important for separation of minerals involving minerals with significantly large density difference.

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## FELLOWSHIP (CONTINUED)

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Applying the multi-component hydrocyclone model which captures the behaviour of different density components is useful in minimising recirculation of fine particles in the grinding circuit due to their high density which results in huge energy saving achieved by avoiding to overgrind the already fine particles. The important in developing this model was understanding the influence of the air-core for different hydrocyclone operating conditions. The work performed in this area of research lead to the development of a semi-empirical air-core model for hydrocyclones of different sizes. In additional to the hydrocyclone model Professor Mainza and co-workers have developed a model for use in designing and optimisation of high frequency fine screens. The model on classification was developed using a combination of data from applied experimental tests and computational experiments performed using computational fluid mechanics as a tool to provide insights on flow regimes within the hydrocyclone. Studying the circuit comprising milling and classification as an integrated process has resulted in significant energy savings and also improvement on many process plants that Professor Mainza and his co-workers have been involved.

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The election by Senate of a member of the faculty to be a fellow recognises sustained and original contributions through research or creative endeavour.

The fellows in the Faculty of Science and their years of election are:

1995: BD Reddy  
2005: A Chinsamy-Turan  
AP le Roex  
2009: I Barashenkov  
JC Sealy  
2010: SA Bourne  
K Chibale  
JM Farrant  
2011: TJ Egan  
2012: G Janelidze  
HP Kunzi  
E Rybicki  
2015: S Richardson  
2016: R Kraan-Korteweg  
2018: P Dunsby  
B Hewitson  
C Reason  
P Ryan

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## FELLOWSHIP (CONTINUED)

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The following members of the Faculty of Science have been elected to a fellowship:

**Professor Michael Meadows**  
**Environmental and Geographical Science**

Michael Edward Meadows is Professor in the Department of Environmental and Geographical Science at the University of Cape Town. His research on the Quaternary palaeoenvironments of southern Africa has made significant contributions to an understanding of the changing climate and associated environmental conditions in the region. Meadows is internationally recognised for his research based on the palaeoecological analysis of wetland sediment cores across southern Africa, extending northwards to Malawi and including Botswana and Namibia in addition to South Africa. His research over more than three decades, much of which focuses on the Western Cape, is frequently cited and forms a key body of work that has progressively resolved the nature and scale of environmental changes in the region over the last glacial-interglacial cycle.

In all, Meadows has published more than 160 peer-reviewed journal articles and book chapters that cover a wide range of subjects within the broader discipline of physical geography, including Quaternary science, palaeoecology, geomorphology and landscape change. In addition, he has a monograph and two substantial edited works along with several special issues of high-ranking journals. Meadows has been instrumental in promoting research into two key localities in particular; our understanding of environmental changes at Verlorenvlei on the west coast, and the Wilderness Lakes on the south coast, has been especially important and recognized through the award of two major internationally-funded research projects on which he is co-Principal Investigator. In recent years, in collaboration with Professor Brian Chase, a former postdoctoral student, Meadows has been active in extending the range of palaeoenvironmental proxies to include the rich potential of *Hyrax* midden deposits.

Meadows has worked with a wide range of collaborators that include his own graduate students as well as more senior scientists from Germany, France and the United States and is also acclaimed for his insightful reviews and syntheses of current knowledge on southern African Quaternary palaeoenvironments. His work is widely cited (Google Scholar H-index = 33) and, notably, his jointly-authored synthesis paper in *Earth-Science Reviews* (Chase and Meadows, 2007) has been cited more than 370 times. There have been some especially noteworthy findings, not least the paper published with one of his doctoral students that documents the first unequivocal evidence for the existence of a Younger Dryas climate anomaly in the southwestern Cape (Quick et al., 2011). In recent years, Meadows has played an important role in stimulating and facilitating international researchers to work in South Africa; these efforts have added very substantially to the range of approaches and level of expertise in the Quaternary research community.

There have also been some important contributions to the understanding of land degradation and land use change, and to the history of Quaternary science in the southern Africa. On a broader scale, Meadows' work is of global importance in its contribution to our understanding of longer-term climate dynamics. The Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013) describes the importance of palaeoclimatic reconstructions in understanding natural fluctuations in earth's climate and atmosphere, providing a baseline for evaluation of anthropogenic influences and climate change. Relatively little work of this kind has been done in the southern hemisphere; Meadows' papers form an important part of this corpus. Meadows has been an outstanding and inspiring research director and, as Head of Environmental & Geographical Science for 16 years, has seen the department rise to be one of the top 50 Geography departments globally. Indeed, EGS is one of only two departments at UCT to enjoy such a high international ranking. He has also been centrally involved in promoting his discipline and has occupied, or occupies, important leadership positions in international organisations in the field, in particular serving as the Vice-President (2008-2010) and Secretary-General and Treasurer (2010-2018) of the International Geographical Union. He is an elected Fellow of the Royal Geographical Society and of the Royal Society of South Africa and has held visiting Professorships at the University of Cambridge and the Chinese Academy of Sciences. Such appointments and achievements testify to his substantial international standing in his field.

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## **FELLOWSHIP (CONTINUED)**

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### **Professor Edgar Pieterse Architecture, Planning and Geomatics**

Professor Pieterse was appointed as the founding director of the African Centre for Cities, ACC, (a UCT Signature Theme) in 2007. This was an appointment as a full professor in the School of Architecture, Planning and Geomatics and as a DST/NRF chair (in Urban Policy).

Since his appointment Prof Pieterse has been primarily responsible for fostering the emergence of the ACC as the most prominent and recognised centre for urban research on the African continent, and with global recognition. This has been achieved not only through building the ACC but, most importantly, through his own academic and policy leadership. He is now widely recognised as a leading urban scholar both in terms of understanding and analysing the nature of current urban change and also forms of intervention which can address key urban equity and sustainability issues.

He has a highly impressive personal publication record involving 12 edited and one co-authored book and a monograph, and 56 book chapters and 19 articles in mostly prominent peer-reviewed journals since 2007. His historical journal publishing record is much longer, starting in 1993. His CV also shows a large number of conference invitations to speak at venues and events around the world. The focus of his work has been on understanding cities from a global south perspective and taking into account the contextual particularities of urban change (particularly on the African continent). He has developed a synthetic framework for understanding the multi-dimensional and multi-sectoral nature of cities and change, and using this to shape policy intervention so as to move cities towards a more equitable and resilient future. His 2008 monograph was an early establishment of this framework which he has continued to build on. As his CV indicates he is now moving on to explore concepts and implications of ‘adaptive urbanism’.

His publication and public speaking achievements are reflected as well in a number of very high profile (global and continental) invitations to play research advisory roles and to serve on committees working on future urban policy. His role in the UN Sustainable Development Goals (11) process has been noteworthy; and in South Africa’s National Development Plan. He has played important teaching roles as well: he is a Senior Fellow to the University of Cambridge Institute for Sustainability Leadership (CISL), and has recently helped to set up a new masters programme in Southern Urbanism at ACC, on which he teaches.

As a prominent and highly respected urban scholar Professor Pieterse is worthy to be nominated to the College of Fellows.

## NAMES OF GRADUANDS

An asterisk \* denotes that the degree will be awarded in the absence of the candidate.

### 1. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor A Lewis

#### POSTGRADUATE DIPLOMA IN PROPERTY STUDIES

Danilo Alessandro Biccari  
Annemarie Fish  
\*Dino Giuseppe Plumari

#### POSTGRADUATE DIPLOMA IN PROJECT MANAGEMENT

\*Bhekumuzi Nil Hlengwa  
\*Selemani Waziri Selemani

#### DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES

\*Shareefah Smith (with distinction)  
\*Ettore Antoine Giuseppe Soffietti

#### DEGREE OF BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES

Michael Meynell Bunting  
Charles Thomas Rumboll  
\*Steve Emanuel Gary Sew Hee

#### DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

*In Chemical Engineering:*

Bonolo Bonokoane  
Senzesihle Thabisile Buthelezi  
Apollonia Anesu Charamba  
Zandile Kay Matutu  
\*Phemelo Moses  
Anmar Petersen  
Omishka Ranganthan  
Wiseman Shabane

*In Civil Engineering:*

\*Alexa Christina Bessinger  
Bhavini Bhagwan  
Craig Peter Flanagan  
\*Callum Mark Jamieson  
Suzanne Elaine Lambert  
\*Donald Tshwene Mathekga  
Michael Daniel Moore  
Yanga Lazola Pantshwa  
Yashin Krishna Harry Rummun  
\*Jonathan William Young-Pugh

*In Electrical Engineering:*

Awethu Mdayi  
Pitori Justice Motsoeneng

*In Electrical and Computer Engineering:*

Michael Brian Field  
Zwivhuya Mashau  
Kamogelo Emmanuel Mphela  
\*Kiuran Naidoo (with first class honours)  
Yondela Nkwali  
Kuziwa Nyasha Sachikonye  
Charles Daniel Schleich  
Azile Madoda Ludwe Silwana  
Vhutali Tshikotshi

*In Mechanical Engineering:*

\*Roberto Dalle Vedove (with honours)  
\*Seth Abron Lurie (with honours)  
Neil Munro Mackenzie (with first class honours)  
Khumo Cetwayo Mampuru  
Sammy-Joe Ditiro Mathabatha  
Vutivi Knowledge Mbumbi  
\*Vuyo Ncube  
Ropafadzo Ndlovu (with honours)  
Mutali Nepfumbada  
Yasmeen Osman  
\*Skariah Thomas  
Matthew Barry Van Blerk  
Ghaalib Van Der Ross  
Nomfundo Sibongile Vilakazi

*In Mechanical & Mechatronic Engineering:*

Sanushin Moodley

*In Mechatronics:*

Oliver Funk (with honours)  
Adhir Jagtee  
Sean Pierre Le Roux  
Kyle Wesley Mcilroy  
Matthew Pike  
Adam Chaim Rosendorff (with honours)

Samuel David Voigt

\*Tariq Waggie

#### DEGREE OF BACHELOR OF SCIENCE IN GEOMATICS

\*Jenna Brigit Kala Suter Lake (with honours)

#### DEGREE OF BACHELOR OF SCIENCE IN PROPERTY STUDIES

\*Ambreen Saloojee  
Nqobile Kudzai Zinyengere

#### DEGREE OF BACHELOR OF CITY PLANNING (HONOURS)

Derrick Robert Robinson  
\*Khiara Nadine Smith

#### DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN CONSTRUCTION MANAGEMENT

Shaad Isaacs

#### DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN GEOGRAPHICAL INFORMATION SYSTEMS

\*Valerie Franzell Hoffmann

#### DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN MATERIALS SCIENCE

Bokang Khabo

#### DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN QUANTITY SURVEYING

Bhuvanesh Shyamal Dosieah  
Sara Iyaloo Shagwanepandulo  
Ekondo  
\*Stacey Pearl Mhlongo

## 2. FACULTY OF SCIENCE

*Interim Dean: Professor S Bourne*

### DEGREE OF BACHELOR OF SCIENCE

Zakiya Abrahams  
\*Ryan Justin Andreas  
Steffi Heidi Baumgart  
Amanuel Nigussie Betemekdes  
\*Thabang Bhili  
Xola Bilose  
Amalia Luisa De Abreu  
Tanri Lisinda De Lange  
Paige Tayla Donkin  
William James Healy  
Imraan Hendricks  
Sasha Carmen Holloway  
\*Jarad Leo Humphry  
\*Michael Carl January  
Shelby Layla Labuschagne  
Nomvuzo Ruth Matya  
Njabulo Clive Mncwabe  
\*Retselisitsoe Elias Monyake  
Tiiso Faith Motabola  
Nengwani Nedombeloni  
Nkateko Noluthando Ntimane  
Birgitt Antoinette Ouweneel  
Michael Eric Page  
Lilitha Potye  
Seipati Emily Rasenyalo  
Fergus John Strangways-Dixon  
Sepolo Meshack Taaso  
Beguens Erwin Tshimpaka  
Ashlee Alexandra Van Wyk  
Yamkela Venfolo  
Dillon Luke Woodman  
Wonga Colin Xelelo

### DEGREE OF BACHELOR OF SCIENCE (HONOURS)

*In Computer Science:*

\*Thuto Mokonupi Aphiri  
\*Lerato Mosegedi

*In Environmental & Geographical Science:*

\*Helen Grace Antonopoulos  
\*Rebecca Amy Whitehead

*In Geology:*

\*Jorgina Ndahambelela Penny  
Akushika

*In Statistics:*

Alungile Gcaza

## 3. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

*Dean: Professor A Lewis*

### DEGREE OF MASTER OF ARCHITECTURE (PROFESSIONAL)

\*Klara Maryn Bezuidenhout

### DEGREE OF MASTER OF CITY AND REGIONAL PLANNING

Heather Hope Kirkby

### DEGREE OF MASTER OF ENGINEERING

*In Civil Infrastructure Management and Maintenance:*

Grandeur Tofara Hove  
Darison Mashanda  
Myezo Poyo  
\*Hermann Theodor Stehle

*In Nuclear Power:*

Cindy Allison Bass  
\*Jenna De Araujo (with distinction in the coursework component)  
Vernon William Fillis  
Naasef Rylands (with distinction in the coursework component)

*In Structural Engineering & Materials:*

Owen Stanley Davis (with distinction in the dissertation)  
Sheryl Dawn Paulse  
Benjamin Andreas Rockstroh

*In Telecommunications:*

Evans Bartocho Kiptoo  
Wahau Simon Lechesa

*In Transport Studies:*

Marlyn Lloyd Botha  
Mabuyi Euphemia Mhlanga  
\*Oluyemi Julius Oni

*In Water Quality Engineering:*

Jordache Rishar Fortuin  
Marco Kritzing (with distinction in the coursework component)

### DEGREE OF MASTER OF GEOTECHNICAL ENGINEERING

Shaina Bisoon Dayal  
\*Shiella Tadzei Mudenge  
Mukovhe Confidence Tshilande

### DEGREE OF MASTER OF LANDSCAPE ARCHITECTURE

\*Liz Pullukattu

### DEGREE OF MASTER OF PHILOSOPHY

*In Civil Engineering:*

Shamiso Tingini Kumbirai

*In Conservation of the Built Environment:*

Caroline Louise Hancock  
\*Christina Havenga  
\*Vanessa Jane Ruhlig

*In Engineering Education:*

Williams Abayomi Awodele (with distinction)

*In Engineering Management:*

Irfaan Hamdulay  
\*Justin Mark Wimbush

*In Space Studies:*

\*Monica Estebanez Camarena (with distinction)  
\*Wei-Yu Feng  
\*Vaughan Peter Moss  
Michael Gbenga Ogungbuyi

*In Sustainable Mineral Resource Development:*

\*Kabangu Grace Sakuwaha



*In Transport Studies:*

Shela Paulina Boshielo  
\*Carlyn Joy Fester (with distinction in the dissertation)

*In Urban Infrastructure Design & Management:*

Tamsin Phyllida Thokozile Faragher  
Adele Hosken  
Johanna Malan (with distinction in the dissertation)  
Thiathu Darrhyl Manenzhe  
\*Carla Jane Robb  
Charlotte Rose Scott (with distinction)

DEGREE OF MASTER OF SCIENCE  
IN ENGINEERING

*In Chemical Engineering:*

\*Ilyas Abdullah  
\*Sarah Lynn Adam (with distinction in the coursework component)  
\*Rony Mungasia Azegele (with distinction in the coursework component)  
Godknows Kudzai Chiodza  
Lorren Mary De Kock (with distinction)  
Theophilus Chiratidzo Dzingai (with distinction)  
Lucia Dzinza  
Armand Stefan Geldenhuys  
Kemi Olubunmi Jegede  
Genevieve Elizabeth Harding  
\*Thomas Ignatius Jordaan (with distinction)  
\*Mekia Elias Makhubu  
Resoketswe Martha Manenzhe (with distinction)  
Wijnand Marquart (with distinction in the dissertation)  
\*Muhammad Motala  
\*Annah Moyo  
Nobuhle Mpofu  
Winfull Jaconia Msipa  
\*Dayle Nel (with distinction)  
Sithembiso Ntlhabane (with distinction)  
Mohamed Habeeb Parker  
Clare Josephine Rodseth (with distinction)

*In Civil Engineering:*

Alice Titus Bakera (with distinction in the dissertation)  
Nyasha Francesca Chitate (with distinction)  
\*Mercy Dada

\*Jacobus Frederick Du Preez

\*Philip Gregory Krause (with distinction in the coursework component)  
Bukhosi Raphael Nyoni

*In Civil Infrastructure Management & Maintenance:*

\*Matthew Stuart Holmes (with distinction)

*In Electrical Engineering:*

Mahmood Akbari  
Ezra Luke America  
\*Emmanuel Olansile Balogun (with distinction)  
Ashill Chiranjani (with distinction)  
Pride Chiwaridzo  
\*Jan Hendrik Combrink  
\*Benjamin Guy De Charmoy  
\*Ashiv Rao Dhondea  
Shah Ali Faizan  
Tumelo Gabaraane (with distinction)  
Tinashe Godknows Gwatiringa  
\*Xiao Ming Hu (with distinction)  
\*Mohamedreza Mohamediqbal Kalyan  
Mohamed Wasim Lorgat  
\*Molaoa Molaoa  
Sean Moore  
John Mushenya (with distinction)  
\*Maxas Bweupe Ng'onga  
Himal Patel (with distinction)  
\*Udita Paul  
Gevashkar Rampersadh  
Subha Singh  
\*Divij Soobhug  
\*Bradlee Kenneth Wilson

*In Energy Studies:*

Richard Larmour

*In Geomatics:*

Kehinde Hassan Babalola  
Wayne Davison

*In Geotechnical Engineering:*

Dercio Jose Pinto Chim Jin  
Lita Noluthungu (with distinction)  
\*Yogendra Pudaruth (with distinction in the coursework component)  
Steven Paul Seymour (with distinction)

*In Materials Engineering:*

Nicolas Ignacio Cardenas (with distinction)  
Megan Steytler (with distinction)

*In Mechanical Engineering:*

\*Nicol Basson  
James Haydn Hepworth (with distinction)  
Kelsey Lee Hilton (with distinction in the dissertation)  
Willem Louis Le Grange  
\*William Deng Cheong Liw Tat Man  
Neelesh Maharaj  
Keelan Moore  
Geoff Randall Raikes (with distinction)  
Kashir Singh  
Lee-Anne Welgemoed (with distinction)

*In Radar & Electronic Defence:*

Johann Burger (with distinction)

*In Structural Engineering and Structural Materials:*

\*Muhammad Zubair Lall Mahomed (with distinction)  
\*Chad Ludwig (with distinction in the dissertation)  
Haris Sohawon (with distinction)

*In Sustainable Energy Engineering:*

\*Gregory Peter Ireland (with distinction in the dissertation)

DEGREE OF MASTER OF SCIENCE  
IN PROJECT MANAGEMENT

Moses Tinashe Chiropa  
\*Thato Matsio  
\*Lorato Maitumelo Stacy Motsisi  
Nyasha Yvonne Mpemba  
Mary Ndesihafela Shiimi

DEGREE OF MASTER OF SCIENCE  
IN PROPERTY STUDIES

Ross Warren Dyer  
\*Dorota Izabela Gaszynska  
Lesedi Refilwe Kgaka  
Peter Graham MacKenzie (with distinction in the dissertation)  
Sandile Frederick Mthiyane  
Michael David Russell  
Bernard Jansen Van Nieuwenhuyzen (with distinction in the dissertation)

DEGREE OF MASTER  
OF URBAN DESIGN

Saudah Asmal  
Graeme Peter Hurst  
Sasha Celeste Vaughan

**4. FACULTY OF SCIENCE**

*Interim Dean: Professor S Bourne*

DEGREE OF MASTER  
OF PHILOSOPHY

*In Climate Change & Development:*

\*Kevin Coldrey  
\*Ashley Neary Fox

*In Environment Society & Sustainability:*

John Alfred Nyawali  
\*Rowan Edward Robertson  
Abbey Roggenbuck  
\*Jennifer Anne Whittingham

DEGREE OF MASTER OF SCIENCE

*In Advanced Analytics:*

\*Gciniwe Simphiwe Dlamini  
\*Qobo Sikhumbuzo Dube  
Raymond Tendai Nhapi  
\*Alessandro Scarcella

*In Applied Mathematics:*

\*Nomsa Maripa Ledwaba  
\*Faniry Nadia Zazaravaka  
Rahantamialisoa  
Candysse Amy Louise Vrancken (with  
distinction)

*In Applied Ocean Sciences (Applied  
Marine Biology):*

\*Meghan Haupt  
\*Matthew Christopher Horton  
\*Amy Momoko Jones  
\*Aliya Nawaz Shah

*In Applied Ocean Sciences (Operational  
Oceanography):*

Wade Matthew De Kock  
\*Hermann Luyt  
Precious Thembumuzi Mahlalela

*In Archaeology:*

Nomawethu Hlazo (with distinction)  
Robyn Angelique Humphreys

*In Astrophysics & Space Science:*

\*Anja Genade

*In Biological Sciences:*

Darren Scott Du Plessis  
\*Christopher Warrick Price Jones  
Iyra Esmen Maeve Maharaj  
\*Nthabeliseni Meryling Munyai  
\*Hana Petersen

*In Biostatistics:*

Miguel Julio Rodo

*In Chemistry:*

\*Chyanne Abbott  
\*Anna Casimiro  
\*Christopher Kieran De Cerf  
\*Giacomo Ganazzoli  
Dylan Giffard  
\*Riccardo Lolli (with distinction)  
\*Marcello Mutti  
Diteboho Selina Ramarou  
Laa-iqa Rylands  
\*Andrea Sala  
Alexios Ivan Vicatos (with  
distinction)  
Cody Williams (with distinction)

*In Climate Change & Development:*

\*Angela Mary Chappel  
\*Heather Vimbai Mahachi  
Bishar Mohamed  
\*Bonolo Mosime  
Tiro Nkemelang  
\*Joshua Weeber

*In Computational Science:*

Ju Young Kim

*In Computer Science:*

\*Leonard Z Botha  
\*Sarah Jean Brittan  
Jacob Hallam Clarkson (with  
distinction)  
Bryan Evan Davies  
Morebodi Modise

*In Conservation Biology:*

Rio Elouise Button  
Sarah Ashley Catto  
\*Sydney Pierce Davis  
Shannon Marie Dubay  
Caitlin Kristine Kelly

Leungo Boikanyo Leepile  
Colleen Elizabeth Lindberg

\*Oyena Bongekile Masiko  
\*Franck Barrel Pouhcquah Mavinga  
Phoebe Mottram  
Maarten Van Beuningen  
Tapiwa Godknows Zimunya

*In Environment Society & Sustainability:*

Jessica Coral Drewett  
\*Toni Olsen

*In Environmental &  
Geographical Science:*

Tichaona Tavare Mukunga

*In Geochemistry:*

Manoka Marageni  
Mari Scott

*In Geology:*

Yambi Renato Daniel Dinis (with  
distinction)  
Melody Stephanie Fynn  
Bianca Alexandra Harrison (with  
distinction)  
Lisias Amupolo Negonga  
Frederik Wilhelm Van Zyl  
Benjamin Anton Whitehead

*In Information Technology:*

\*Mary-Jane Antia  
Kumbirai Chigudu  
Devandran Govender (with distinction)  
\*Cameron James Kyle  
Zachary Dillon Smith

*In Mathematical Statistics:*

\*Thembanani Phaweni

*In Mathematics:*

\*Yanga Bavuma  
\*Simon Walter Rigby (with distinction)  
Owolabi Yusuf

*In Molecular & Cell Biology:*

Raygaana Jacobs  
\*Evan David Milborrow (with  
distinction)  
Tawanda Jonathan Nhundu  
Steven Patrick O'Connor  
Ashley Victoria Parker  
\*James Grant Pelsler (with distinction)

*In Ocean & Atmosphere Science:*

Bedricks Monyai Morake

*In Operational Research:*  
Rivalani Willie Hlongwane

*In Physical Oceanography:*  
Manare Caroline Sejeng  
Sheveenah Sunnasse Taukoor

*In Theoretical Physics:*  
Brent Andrew Harrison (with distinction)  
\*Tanjona Radonirina Rabemananjara (with distinction)  
Jonathan Rayner (with distinction)

DEGREE OF DOCTOR  
OF PHILOSOPHY

*In Astronomy:*  
\*Elias Aydi  
Thesis Title: *Multiwavelength studies of classical novae*

Elias Aydi holds a BSc degree in Physics from the Lebanese University and an MSc in Astrophysics from the Notre Dame University, Lebanon. He joined the Astronomy Department at UCT and the South African Astronomical Observatory in 2015 for his PhD studies.

Elias Aydi's thesis comprises multiwavelength studies of three classical nova events. These are stellar eruptions occurring in close interacting binary systems; following mass transfer from a cool star onto a compact white dwarf. The first study focuses on the 2015 eruption of Nova V5852 Sgr and concludes that the nova might be associated with the Sagittarius stream. If so, it would be the first nova to be discovered in a dwarf spheroidal galaxy. The second is a study of the 2016 eruption of Nova SMCN2016-10a. This concludes that it is one of the most energetic and brightest ever observed. The third study, an investigation of the 2016 eruption of Nova V407 Lup, suggests that the white dwarf has a significant magnetic field. Furthermore, the mass accretion onto the white dwarf resumed soon after the eruption. These studies are important steps in the quest for a better understanding of nova eruptions.

*Supervisor:* Professor P Whitelock (Astronomy)  
*Co-supervisor:* Dr S Mohamed (Astronomy)

Itumeleng Matuba Monageng  
Thesis Title: *Optical and gamma-ray study of gamma-ray binaries*

Itumeleng Monageng completed his BSc, BScHons and MSc qualifications in Astrophysics and Space Science at UCT, and began his doctoral studies in 2014.

Itumeleng Monageng's thesis focuses on characterising gamma-ray binary stars — highly energetic double-star systems. He uses spectra of 1FGL J1018.6-5856 from optical telescopes to measure radial velocities and derive the orbital parameters of the system. The latter allow him to constrain the mass, and hence the nature, of the compact object. Using spectra of the LS I +61 303 systems, he investigates geometric changes in the circumstellar disc and its interaction with the compact object; demonstrating possible physical scenarios for the disc variability and showing, for the first time, observational signatures of the Kozai-Lidov mechanism. His thesis also includes an exploration of the Bethe-Heitler mechanism for the production of high energy emission in gamma-ray binaries. Through detailed theoretical modelling, Itumeleng Monageng derives the associated light curves and spectra, and compares the flux contributions with those from other high energy emission mechanisms.

*Supervisor:* Dr S Mohamed (Astronomy)  
*Co-supervisor:* Dr V McBride (Astronomy)

*In Biological Sciences:*

Charlene Da Silva  
Thesis Title: *Biology, movement behaviour and spatial dynamics of an exploited population of smoothhound shark *Mustelus mustelus* around a coastal marine protected area in South Africa*

Charlene da Silva holds an MSc in Fisheries Science from Rhodes University. She joined UCT's Department of Biological Sciences in 2009 for her PhD Studies. She is currently employed at the Department of Agriculture, Forestry and Fisheries.

Charlene da Silva's thesis is an intensive study of the smoothhound shark

in Saldanha Bay. Her work began with a detailed examination of the biology of the shark, describing its reproduction, diet, age and growth. This information formed the basis of the assessment of the West Coast National Park as a means to protect this shark species from the growing threats of fishing and industrialisation. Sharks were tracked with acoustic transmitters. A massive array of listening stations was moored throughout the bay in a manner that allowed her to quantify the frequency of crossings of reserve boundaries and to relate the sharks' behaviour to seasonal tidal and diel changes in the physical conditions in the bay. Her work showed that the smoothhound shark movements were influenced mostly by temperature and that the reserve affords it sufficient protection.

*Supervisor:* A/Professor C Attwood (Biological Sciences)  
*Co-supervisor:* Professor SE Kerwath (Department of Agriculture, Forestry and Fisheries)

\*Gregory Lawrence Duggan  
Thesis Title: *Return to the realm of the Kob Kings: social capital, learning, resilience and action research in a changing fishery*

Gregory Duggan completed his undergraduate and postgraduate studies in UCT's Humanities Faculty, following which he joined the project "Southern Cape Interdisciplinary Fisheries Research" of the SA Research Chair in Marine Ecology and Fisheries.

Based on ethnographic fieldwork in the commercial handline fishery on South Africa's southern Cape coast, and building on his interest in participatory action research, Gregory Duggan's work facilitated the co-development of applied responses to four challenges identified by research participants. His thesis explores the processes, constraints, motivators and lesson learnt in addressing each challenge, addressing current themes in social-ecological research. Gregory Duggan's research highlights the importance of different forms of trust, paired with leadership, as critical to successful participation and collaboration. He discusses opportunities

and constraints in enhancing our limited understanding of subsurface temperature variability and change at the bay scale and explores the development of integrated teaching modules on marine change in underprivileged secondary schools. He shows how social capital, leadership and competing economic and lifestyle foci proved crucial for fishers' organisations, and how he continued economic influence of the trawling industry limits the extent of commercial linefishers' adaptive strategies.

*Supervisor:* A/Professor A Jarre  
(Biological Sciences)

*Co-supervisor:* Professor G Murray  
(Duke University, NC, USA)

David Clifford Dyer  
Thesis Title: *Stable isotope ecology of South African kelp forests*

David Dyer has BSc and BSc(Hons) Cum Laude degrees in Marine Biology, as well as an MSc Cum Laude in Biology from the University of KwaZulu-Natal. His strong interest in trophic ecology and stable isotope biogeochemistry inspired his move to UCT.

David Dyer's thesis examines the important patterns and processes which govern the food web structure and functioning of South African kelp forests. His thesis is the first dedicated stable isotope research on these habitats in South Africa, examining a broad spectrum of ecological questions ranging from stable isotope variability in kelp forest seaweeds, to the trophic niche characterisation of important predatory species. Using stable isotope biogeochemistry, David Dyer has improved our understanding of the trophic ecology of these important coastal ecosystems.

*Supervisor:* Professor JJ Bolton  
(Biological Sciences)

*Co-supervisors:* Professor RJ Anderson  
(Biological Sciences); A/Professor AJ Smit  
(University of the Western Cape)

Glynis Joy Humphrey  
Thesis Title: *The role of humans, climate and vegetation in the complex fire regimes of north-east Namibia*

Glynis Humphrey holds a BSc from Rhodes University and an MSc in Conservation Biology from UCT. She joined The Plant Conservation Unit at UCT in 2013 for her PhD. Between her studies, she worked in the ecological field in South Africa, Peru, Botswana, Namibia, and Tanzania.

Glynis Humphrey's thesis focuses on understanding social-ecological fire dynamics in Bwabwata National Park, in north-east Namibia, through analysis of satellite data and stakeholder interviews. Results from the satellite data suggest that where people utilize fire in a savanna landscape, burned area depends on the season of fire use, number of fires, fire sizes, and rainfall. Interviews with Namibian stakeholders show that early-season burning is culturally and ecologically significant to the Khwe (former hunter-gatherers) and Mbukushu (pastoralist) communities, as well as being a key park management strategy used today. The interdisciplinary synthesis reveals that the communities are currently socially and ecological vulnerable to global environmental change, given their dependence on fire for ecosystem services. Despite the complex social-ecological history, the shared interest in early-season burning provides a point of confluence between diverse stakeholders in BNP and a basis for fire management policies that benefit biodiversity as well as livelihoods.

*Supervisor:* A/Professor L Gillson  
(Biological Sciences)

Megan Loftie-Eaton  
Thesis Title: *Woody cover and birds*

Megan Loftie-Eaton obtained her BSc in Environmental and Conservation Sciences through the University of Alberta in Edmonton, Canada. Before starting her PhD, she completed an MSc in Zoology at UCT.

Bird distributions in many parts of the world are changing in response to development and climate change. South Africa is no exception, with millions of

records on bird distributions, collected by citizen scientists according to a fieldwork protocol that enables statistical analyses to be conducted. These data have been used to demonstrate that one of the main factors impacting changes in bird distributions in South Africa has been bush encroachment. Parts of the grassland biome now has scattered trees, and has become savanna. In parts of the savanna, tree densities have increased. Megan Loftie-Eaton's thesis has explored the relationships between birds and woody cover, with data for the latter obtained from remote sensing, using a system called LiDAR. She has quantified the woody cover preferences of birds and has selected those bird species which are likely to be the most sensitive for monitoring bush encroachment. She has suggested that bush encroachment following the collapse of collective agriculture in the former Soviet Union has been matched by bush encroachment in the savanna biome and that this has resulted in the increase in abundance of seven species of long-distance migrants and a decrease in three others.

*Supervisor:* Emeritus Professor  
L Underhill (Biological Sciences)

Mageshnee Mayshree Reddy  
Thesis Title: *Taxonomy and systematics of the Bangiales (Rhodophyta) in South Africa using an integrative approach*

Mageshnee Reddy has a BSc majoring in Marine Biology and Microbiology, a BSc(Hons) in Marine Biology and an MSc in Biology from the University of KwaZulu-Natal. She worked as a research assistant at the Oceanographic Research Institute, Durban after completing her MSc. She then moved to UCT to pursue a PhD, during which time she spent a year as an exchange student in Belgium.

Mageshnee Reddy's thesis contributes significantly toward our understanding of the taxonomy, systematics and evolution of the red seaweed order, Bangiales in South Africa. Members of the order are best known for their value in the multi-billion US-dollar nori (sushi) industry. Mageshnee Reddy used an integrative taxonomic approach and recently-developed analytical methods to estimate the diversity of the



Bangiales in South Africa. Her thesis resulted in the recognition of extensive diversity and endemism in South Africa, including the discovery of two new species. Comparisons with species from around the world support the evolutionary hypothesis of past connectivity of red seaweeds in the Southern Hemisphere. Regional patterns of diversity were related to oceanographic features of the nearshore environment and novel evolutionary hypotheses were proposed. This thesis demonstrates the benefit of a multidisciplinary approach to studies of this type.

*Supervisor:* Professor JJ Bolton  
(Biological Sciences)

*Co-supervisor:* Professor RJ Anderson  
(Biological Sciences)

*In Botany:*

Lovanomenjanahary Marline

Thesis Title: *Diversity and biogeography of Madagascan bryophytes with an analysis of taxic and functional diversity along an elevational gradient in Marojejy National Park*

Lovanomenjanahary Marline, from Antsirabe, Madagascar, completed her undergraduate study and MSc at the University of Antananarivo. She began full-time study towards her PhD in 2012 with support from the prestigious Organisation for Women in Science.

Lovanomenjanahary Marline's thesis is a multifaceted exploration of the diversity and biogeography of bryophytes (an ecologically significant, but poorly understood, group of plants) in Madagascar. A broad analysis of floristic and biogeographic patterns provides the global and regional context within which the flora may be understood. A detailed analysis of taxic and functional diversity along an elevational gradient in Marojejy National Park, north-eastern Madagascar, shows a mid-elevation peak in species richness and the range distribution of epiphytic bryophytes. Throughout the gradient, species turnover contributes the most to variation in species composition between sites. Both habitat filtering and niche differentiation were found to be involved in structuring species abundances within the studied

communities. This combination of biogeographic, taxic, and community ecology approaches, is the first detailed study on the bryoflora of Madagascar and contributes to the direct application of bryological data to conservation planning for Madagascar's unique ecosystems.

*Supervisor:* Professor T Hedderson  
(Biological Sciences)

*Co-supervisor:* Dr C Ah-Peng  
(Biological Sciences)

*In Chemistry:*

Nicola Anne Dare

Thesis Title: *Encapsulation of iron(III) protoporphyrin IX and tetraphenylporphyrin in metal-organic frameworks for application as heterogeneous oxidation catalysts*

Nicola Dare holds BSc and BSc(Hons) degrees in Chemistry from UCT. She began full-time research towards her PhD degree in 2014.

Nicola Dare's thesis investigates the encapsulation of the natural cofactor haem in the form of ferrihaem and a synthetic analogue, iron tetraphenylporphyrin, in metal organic frameworks (MOFs) as oxidation catalysts. MOFs are solid state structures with remarkable porosity. She demonstrates that one such structure can successfully host ferrihaem within its pores. Using a wide variety of analytical techniques, she shows that the material retains its porosity and structure following encapsulation of ferrihaem, that the ferrihaem is uniformly distributed through the structure and retains its integrity and that the material exhibits enhanced activity and stability in catalysing the reaction between hydrogen peroxide and organic substrates. She also sheds light on the mechanism of the reaction and determines the structures of MOFs encapsulating both of the iron porphyrins, ferrihaem and iron tetraphenylporphyrin. This work makes a substantial contribution to the field of MOF catalysis and especially that of unexplored MOF ferrihaem catalysts.

*Supervisor:* Professor TJ Egan  
(Chemistry)

*Co-supervisor:* Professor SA Bourne  
(Chemistry)

Godfrey Wabwile Mayoka

Thesis Title: *Synthesis, pharmacological and physicochemical profiling of antimalarial and antischistosomal N-aryl 3-trifluoromethyl pyrido [1,2-a] benzimidazoles*

Godfrey Mayoka graduated top of his Bachelor of Pharmacy class at the University of Nairobi, Kenya before proceeding to gain an MSc in Drug Discovery (with distinction) from University College London School of Pharmacy. He is a Lecturer at Jomo Kenyatta University of Agriculture and Technology, Kenya.

Godfrey Mayoka's thesis focuses on finding alternative small molecules as suitable starting points for the discovery of new drugs for the treatment of malaria and schistosomiasis (bilharzia) for which current treatments are suboptimal and are compromised by resistant parasites. He uses medicinal chemistry strategies to design and synthesize compounds, which are evaluated for their antimalarial and antischistosomal activities. From this research, Godfrey Mayoka establishes that the compounds inhibit the growth of malaria- and bilharzia-causing parasites at multiple stages and show promising efficacy in animal models of the two diseases. Based on these results, Godfrey Mayoka proposes this series of compounds as being suitable templates for further development with the potential to prevent and cure malaria and schistosomiasis.

*Supervisor:* Professor K Chibale  
(Chemistry)

Lehlohonolo Mongalo

Thesis Title: *Molecular dynamics simulations of the electrical conductivities of high temperature metallurgical slags*

Lehlohonolo Mongalo has a BSc from the University of KwaZulu-Natal, as well as an honours in Materials Science and an MSc in Physics, both from UCT. His doctoral work emerged as an industrial collaboration between Mintek, UCT and the Centre for High Performance Computing (CHPC).

Lehlohonolo Mongalo's thesis aims to improve the understanding of the relationship between structure and properties in aluminosilicate slags and subsequently develop artificial neural network models for predicting the electrical conductivities, based on this information. Slags are important components in industrial furnaces and predicting their physical properties from first principles is of fundamental importance in optimising the refinement and extraction process, as experimental measurement is hampered by the high temperature (in excess of 1500 °C) in these furnaces. The approach of this thesis is therefore to make sole use of computer simulations to calculate the various aspects of atomic arrangement and structural features in a selection of CaO–MgO–Al<sub>2</sub>O<sub>3</sub>–SiO<sub>2</sub> slags. Once the relationship is established and verified against known experimental data, the structural properties are used as input parameters for development of artificial neural network models. These models are shown to be very successful in predicting the electrical conductivities of slags.

*Supervisor:* Dr GA Venter (Chemistry)  
*Co-supervisor:* Dr AS Lopic (Mintek/CHPC)

Terence James Noonan  
Thesis Title: *Preformulation solid-state supramolecular beneficiation of selected active pharmaceutical ingredients and a novel drug candidate*

Terence Noonan completed a BPharm degree and an MSc with distinction in Pharmaceutics at the North-West University. He joined the Centre for Supramolecular Chemistry Research at UCT in 2014 for his doctoral studies. He is a qualified pharmacist with experience in working in government and private healthcare sectors.

Terence Noonan's thesis focuses on the principles of crystal engineering and its application to the beneficiation of medicinal compounds with physicochemical shortcomings (e.g. poor aqueous solubility) that hinder their formulation into bioavailable products. Strategies investigated included the generation of crystal polymorphs, solvates,

co-crystals and cyclodextrin complexes of the poorly soluble compounds. The thesis presents accounts of the polymorphism of clevudine (an L-nucleoside active against hepatitis B virus), the co-crystallization of a potent antimalarial drug candidate with biocompatible cofomers, and the synthesis of cyclodextrin complexes of the antioxidant alpha-lipoamide. In addition to elucidating the structures of three clevudine polymorphs and establishing their stability and solubility relationships, Terence Noonan synthesised and characterised numerous multi-component forms of the antimalarial candidate, as well as several cyclodextrin complexes of alpha-lipoamide. Dissolution studies revealed that the solubilities of the bioactive compounds in the form of these multi-component systems significantly exceeded those displayed by the untreated compounds.

*Supervisor:* Emeritus Professor MR Caira (Chemistry)  
*Co-supervisor:* Professor SA Bourne (Chemistry)

Marwaan Rylands  
Thesis Title: *Syntheses of luciferins and their bioluminescent evaluation*

Marwaan Rylands completed his BSc and BScHons degrees in Chemistry at UCT. Thereafter, he continued with postgraduate research in synthetic organic chemistry and chemical biology.

Marwaan Rylands' thesis focuses on the synthetic preparation of D-luciferin and structurally related derivatives thereof. D-Luciferin is the molecule responsible for the emission of light from the tail of the American firefly, *Photinus pyralis* (Ppy), and it is widely researched for its potential applications in bioluminescence imaging. One limitation to the use of D-luciferin is its exorbitant cost, which is associated with its synthetic preparation. Marwaan Rylands' thesis therefore examines alternative methods of preparing D-luciferin as well as potential alternatives to the molecule itself. His synthetic research afforded a new method of luciferin preparation that allows for such molecules to be more easily and rapidly prepared. In addition to the alternative synthesis, an alternative

to D-luciferin itself was also produced. A C-6 thio analogue of D-luciferin, aptly named D-thioluciferin, was prepared as part of his pursuit of an alternative and/or complementary molecule to D-luciferin. He then demonstrated that the new luminogenic molecule, D thioluciferin, emits light at a longer wavelength than D-luciferin. Thereafter, he demonstrated how D-thioluciferin could be applied in areas where D-luciferin application had previously been limited, such as thiol and redox sensing.

*Supervisor:* Dr A Jardine (Chemistry)

Natasha Strydom  
Thesis Title: *Preclinical pharmacokinetic evaluation of novel antimalarial and antituberculosis drug leads*

Natasha Strydom has a BPharm from North-West University and an MSc in Pharmaceutical Chemistry from the University of the Western Cape. Her doctoral work emerged from the need to discover new chemotherapeutics for the treatment of malaria and tuberculosis.

Natasha Strydom's thesis aims to refine traditional preclinical pharmacokinetic approaches and improve drug discovery outcomes. Preclinical pharmacokinetics relies on efficient and accurate screening to select clinical candidates from early leads. Poor pharmacokinetic interpretation can disadvantage drug discovery by promoting inadequate compounds and expelling potential drug candidates. Natasha Strydom's project evaluated several drug leads aimed at antimalarial and anti-tuberculosis efficacy. These studies are used as a foundation to compare existing preclinical methods with refined data analysis approaches, target site-specific pharmacokinetics and formulations screening. These methods are applied in a multidisciplinary approach to improve early drug lead screening. The efforts presented in Natasha Strydom's thesis will complement and optimise malaria and tuberculosis drug discovery screening cascades.

*Supervisor:* Professor K Chibale (Chemistry)  
*Co-supervisor:* Dr L Wiesner (Medicine)



*In Computer Science:*

Ntwa Andalwisy Katule

Thesis Title: *Utilization of personal health informatics through intermediary users*

Ntwa Katule completed his BSc qualification at the University of Kwazulu-Natal and his MSc at the University of Dar es Salaam. Before joining UCT, he worked in academia in Tanzania, and is currently teaching at Ardhi University in Tanzania.

Ntwa Katule's thesis reports on a study that aimed to extend the benefits of information and communications technologies for health behavior change to marginalised populations, which are constrained by technology access barriers, such as low level textual and technology literacy. He went on to investigate aspects of human factors that are important in the design of such a technology. His study explored the use of children as facilitators, also known as intermediaries, for access to technology within the community. The study combined the use of motivational affordances derived from computer games, as a means to motivate children to help adults in interacting with a behaviour change technology. His findings suggest optimal ways to design such a technology for better user experience, and that gamification was a catalyst for increasing collaboration between family members, as well as motivation to track personal health.

*Supervisor:* Dr M Densmore  
(Computer Science)

*Co-supervisor:* Professor U Rivett  
(Information Systems)

Blessing Onuwa Ojeme

Thesis Title: *Adoption of ICT4D frameworks to support screening for depression in Nigerian universities*

Blessing Ojeme holds BSc and MSc degrees in Computer Science from the University of Benin, Nigeria. He joined the Department of Computer Science at UCT in 2014 for his PhD studies. Before joining UCT, he worked as a lecturer in the Computer Science Department at the Delta State University, Nigeria.

Blessing Ojeme's thesis focuses

on the adoption of ICT4D frameworks to support depression screening methodology in medical resource-constrained areas of Nigeria. He investigates the effectiveness of combining machine learning and human computer interaction techniques for guiding the depression identification process in Nigerian universities. He uses real depression datasets from Nigeria to construct models. He starts by investigating the quality of these data and finds them to be of high quality. He also investigates the strength of seven machine learning classifiers and finds probabilistic Bayesian networks the best performer with standard metrics. He then integrates the models into a smartly designed user interface and tests its performance and acceptance by both expert and novice users in the university community. The high performance and acceptance recorded demonstrate the potential that the collaboration of machine learning and usability techniques has for complementing available resources in the identification of depression among the Nigerian university population.

*Supervisor:* Professor T Meyer  
(Computer Science)

*Co-supervisor:* Dr A Mbogho  
(Computer Science)

\* Lighton Phiri

Thesis Title: *Investigating the impact of organised technology-driven orchestration on teaching*

Lighton Phiri holds BSc and MSc degrees from The University of Zambia and UCT, respectively. He enrolled into a PhD programme at UCT in 2014 and was affiliated with the Center in ICT for Development, the HPI-CS4A Research School and the Digital Libraries Laboratory.

Lighton Phiri's thesis empirically evaluates a novel streamlined approach to the technology-driven orchestration of learning activities in formal learning spaces. The thesis empirically shows the challenges and complexities associated with contemporary technology-driven orchestration and, subsequently proposes the implementation of authoring tools that explicitly organise learning activities

by paying careful attention to activity management, resource management and sequencing of learning activities. In order to evaluate the proposed approach, the thesis uses an experimental approach aimed at assessing the effectiveness of the proposed approach, its potential impact on the teaching experience and its feasibility in authentic educational settings. The results suggest that streamlining orchestration is feasible, and further indicates its potential to facilitate effective orchestration of learning activities in formal learning spaces. The research findings will be useful in improving the quality of teaching and learning.

*Supervisor:* A/Professor H Suleman  
(Computer Science)

*Co-supervisor:* Professor Dr C Meinel  
(Hasso Plattner Institute)

Thomas Oliver Reitmaier

Thesis Title: *Human-centred computer architecture: redesigning the mobile datastore and sharing interface*

Thomas Reitmaier holds BScHons and MSc degrees in Computer Science from UCT. Before joining the university's Department of Computer Science in 2008, he studied Computer Science in Germany.

Thomas Reitmaier's thesis opens up a line of inquiry that connects a material perspective of information with everyday sharing and communication practices, as well as with the mobile and cloud architectures that increasingly mediate such practices. With this perspective, he uncovers a shifting emphasis of how data are stored on mobile devices and how these data are made available to apps through sharing interfaces that prevent apps from obtaining a proper handle of data to support fundamentally human acts of sharing, such as gifting. Engaging with diverse disciplines and perspectives he designs and develops a mobile datastore that surface the properties of data that are salient to human affairs: Where does the data come from? Where do their copies reside? and what is happening to those copies?

*Supervisor:* Professor E Blake  
(Computer Science)

*Co-supervisors:* Professor R Harper (Computing and Communications, Lancaster University); Mr M Jones (Computer Science, Swansea University)

*In Conservation Biology:*

\* Rebecca Anne Garbett

Thesis Title: *Conservation of raptors and vultures in Botswana: with a focus on lappet-faced vultures *Torgos tracheliotos**

Rebecca Garbett obtained her BSc(Hons) in Animal Science at the University of Kent in the UK and worked in various wildlife research and conservation positions before enrolling for her MSc at UCT in 2015, which was upgraded to PhD level in 2016.

Rebecca Garbett's thesis focuses on gaining knowledge on raptors, specifically vultures, in Botswana. She used survey data from 1995, which were repeated after 20 years, to report on abundance trends of raptor species in northern Botswana. Declines were detected for half of all species, including several vultures, with declines occurring both inside and outside of protected areas. She then investigated an under-studied threat (lead poisoning) for the critically endangered African white-backed vulture, finding that this threat was strongly associated with hunting activity. Next, she explored the movement ecology and protected area use of the endangered lappet-faced vulture. These analyses revealed vast ranging behaviours, with substantial difference found for breeding and non-breeding birds. She then used this information on ranging behaviours to test whether discrete Vulture Safe Zones might help protect this species in Botswana. Her findings will assist effective conservation management of vultures and other raptor species across Africa.

*Supervisor:* Dr A Amar (Biological Sciences)

Zingfa Jantur Wala

Thesis Title: *Birds and people: studies based on citizen science and census data of Greater Gauteng, South Africa*

Zingfa Wala obtained his BSc in Zoology, through the University of Jos, Nigeria. He

then completed an MSc in Conservation Biology at the AP Leventis Ornithological Research Institute, University of Jos.

Within South Africa, about 30% of the nation's population lives in and around Gauteng, mostly in the Pretoria-Johannesburg conurbation. The research for Zingfa Wala's thesis explores the impact of these people on avian biodiversity in this region of South Africa. Citizen scientists have collected a vast database of records on bird distributions in this region, using a fieldwork protocol which facilitates statistical analyses. The study area consists of a grid of 576 cells, called pentads, with 24 rows and 24 columns. The 2011 South African census data were used to estimate the number of people living in each pentad, and how wealthy they were. Zingfa Wala's thesis explores the relationship between bird communities and the number of people living in a pentad, and finds that, for many species there is a strong relationship, with multiple patterns; some species increase in abundance as the number of people increases, while others decrease. There are even species which peak in abundance at intermediate population densities. There were also surprisingly tight patterns between bird abundance and wealth; 83 bird species were classified as "follow-the-money birds" and 109 species were "wealth avoiders".

*Supervisor:* Emeritus Professor L Underhill (Biological Sciences)

*In Environmental & Geographical Science:*

Shakirudeen Abimbola Lawal

Thesis Title: *The response of southern African vegetation to droughts in past and future climates*

Shakirudeen Lawal holds BSc and MSc degrees from the University of Ibadan, Nigeria. He also completed a second MSc in 2014 at UCT, after which he started his PhD.

Shakirudeen Lawal's thesis focuses on the response of southern African vegetation to drought in the past and future climates. He uses multi-years and multi-simulation datasets from three dynamic vegetation models (DGVMs: CLM, CLMVIC, and ORCHIDEE) and

an earth system model (CESM) for his study. The simulated climate results were evaluated with observation datasets from CRU, while the simulated vegetation index (i.e. Normalized Difference Vegetation Index, NDVI) were evaluated with NDVI data from the Global Inventory Modelling and Mapping Studies (GIMMS). Meteorological droughts at different time scales (1-18 month scales), using two drought indexes: the Standardized Precipitation Evapotranspiration Index (SPEI) and the Standardized Precipitation Index (SPI) were analyzed. The response of vegetation to drought were quantified with the Pearson Correlation Analysis. The DGVMs were applied to study the sensitivity of vegetation to fire and the CESM was used to project impact of climate change on characteristics of southern African vegetation in the future (up to 2100) under the RCP8.5 scenario, focusing on impacts at 1.5oC and 2oC global warming level.

*Supervisor:* A/Professor BJ Abiodun (Environmental and Geographical Science)

Nonhlanhla Philile Mbatha

Thesis Title: *The influence of plural governance systems on rural coastal livelihoods: the case of Kosi Bay*

Philile Mbatha holds a BSocSc in Geography and Environmental Management from the University of KwaZulu-Natal and an MSocSc in Environmental and Geographical Studies from UCT.

Philile Mbatha's thesis focuses on how livelihoods are influenced by governance systems and processes in the Kosi Bay area, a coastal socio-ecological system located within South Africa's first World Heritage Site, iSimangaliso. Post-1994, the South African government has sought to adhere to international and national standards of biodiversity protection. At the same time, thousands of rural households in coastal areas continue to rely on coastal resources for their livelihoods. These livelihoods and associated customary governance systems were historically undermined by colonial and apartheid laws. Addressing the competing interests of conservation

and livelihoods in coastal areas makes governance of resources all the more contested and complex due to the plurality of actors and institutions whose powers and worldviews are usually conflictual. Philile Mbatha's thesis therefore seeks to enhance understanding about the linkages between livelihoods and governance systems and processes. This is done through the lens of Kosi Bay with the view to highlighting the manner in which governance processes and practices influence rural livelihoods. The thesis makes recommendations for improved rural livelihoods by underscoring the role that governance plays within contexts of history and legal pluralism in influencing the livelihoods of people in rural communities.

*Supervisor:* A/Professor M. Sowman (Environmental and Geographical Science) *Supervisor:* A/Professor R. Wynberg (Environmental and Geographical Science)

*In Geochemistry:*

Ágnes Ódri  
Thesis Title: *Oxygen and radiogenic isotope constraints on the generation of coexisting silica-undersaturated and oversaturated felsic magmas of the Ditrău Alkaline Massif (Romania)*

Ágnes Ódri completed her BSc and MSc degrees in Geology at the University of Szeged in Hungary, and started her PhD at University of Cape Town in 2015.

Ágnes Ódri's thesis focused on the origin of the magmas that formed the 230 million year old Ditrău Igneous complex in Transylvania (Romania). For more than 200 years many studies have attempted to understand the coexistence of co-existing silica-undersaturated and oversaturated rocks at Ditrău. This is the first study to combine chemical data, radiogenic isotope data, and mineral oxygen isotopes. In her thesis she demonstrated how chemical and isotopic composition of the silica-rich crust contaminated the ascending silica-poor mantle-derived melts to produce the silica-oversaturated magmas.

*Supervisor:* Professor C Harris (Geological Sciences) *Co-supervisor:* Dr P le Roux (Geological Sciences)

*In Geology:*

\* Ioana Bogdana Radu  
Thesis Title: *Cratonic eclogite xenoliths – formation and evolution of the subcontinental lithospheric mantle*

Ioana Radu holds a BSc in Geology from University of Bucharest, Romania and an MSc in Earth Sciences from Université Jean Monnet de Saint Etienne (UJM), France. She started her PhD in 2014 at UJM in France and joined UCT in 2016 as part of a joint degree contract.

Ioana Radu's thesis focuses on the origin of a rare, high-pressure rock formation (eclogites) issued from continental roots underlying Southern Africa and Siberia, Russia. These samples are very rare, originating from depths of 140–200 km, and can be found only brought up in kimberlite pipes, often associated with diamonds. Through petrographical and geochemical analyses applied on more than 180 samples, she assesses the most complete description of these formations. She further identifies non-contaminated samples and through specific chemical analyses, such as oxygen isotopes and trace elements, she constrains the possible starting material and forming process. These indicate processes similar to those shaping the Earth today were already acting 2.5 billion years ago. This problematic has been debated for more than 50 years, because of the scarcity of proper material. Her study further contributes to a better understanding of Earth's interior and how deep, long-lived continental roots can be preserved.

*Supervisor:* Professor C Harris (Geological Sciences) *Co-supervisor:* Professor J-Y Cottin (Université Jean Monnet, Saint-Étienne)

*In Ocean & Atmosphere Science:*

Ahmad Fehmi Dilmahamod  
Thesis Title: *The biophysical processes controlling the South-East Madagascar Bloom*

Ahmad Dilmahamod holds a BSc degree in Marine Science and Technology from the University of Mauritius. He joined UCT in 2013 and obtained his MSc degree in Ocean and Climate Dynamics from the

Department of Oceanography. He began his PhD in 2014.

Ahmad Dilmahamod's thesis focuses on the physics and biogeochemistry of the South Indian Ocean. He investigates the South-East Madagascar Bloom, one of the largest blooms in the global ocean. Using observational data, he states a new mechanism in play in the initiation of the bloom and tests this new hypothesis using a high-resolution physical-biogeochemical ocean model. He concludes that the mean local oceanic circulation plays an important role in this intriguing bloom. He extends his research to establish the importance of a special type of eddies in the South Indian Ocean. This is the first study which focuses on this eddy-type in the region, and it reveals the importance they play in the large-scale transfer of warm and freshwater in the South Indian Ocean.

*Supervisor:* Professor C Reason (Oceanography) *Co-supervisors:* A/Professor J Hermes (Oceanography); Dr P Penven (Laboratoire d'Océanographie Physique et Spatiale, Institute of Research for Development (IRD); Dr B Aguiar González (University of Delaware)

Marcel David du Plessis  
Thesis Title: *The impact of sub-mesoscales on the stratification dynamics in the Southern Ocean*

Marcel du Plessis has had a longstanding interest in the topic of upper ocean processes in the world's ocean, ever since he began his BSc(Hons) project using data from South Africa's first deployment of ocean gliders (high-tech ocean robots) off the west coast. During his MSc, he became captivated in how the Southern Ocean works, after participating in research cruises to the Antarctic.

Marcel du Plessis' thesis focuses on understanding submesoscale processes (1-10km fine scale flows indicative of swirling ocean eddies) and how they impact the upper ocean environment in the Southern Ocean. He was able to observe these processes initially using unique data from ocean gliders deployed

for many months at a time in the remote polar waters. Results show that these fine scale features were present everywhere in the open ocean and were able to modify upper ocean mixing beyond what was previously observed. Furthermore, he utilised high-resolution ocean models to simulate these features and compare them to theory and observations to show how prominent they are in the ocean and their contribution to the ocean's physical state. His contributions have direct implications for understanding the ocean's role in climate, as well as how it may be changing now and into the future.

*Supervisor:* Professor IJ Ansonge (Oceanography)

*Co-supervisor:* A/Professor S Swart (Marine Sciences, University of Gothenburg)

Majambo Jarumani Gamoyo

*Thesis Title: Modelling dispersal and connectivity of broadcast spawning corals in the western Indian Ocean*

Majambo Gamoyo holds a BSc in Applied Aquatic Science from Egerton University, Kenya and an MSc in Applied Marine Science from UCT. He joined the Department of Oceanography at UCT in 2014 for his PhD studies.

Majambo Gamoyo's thesis focuses on the coral reef ecosystem of the western Indian Ocean. He started by simulating the general circulation of the western Indian Ocean using the Regional Ocean Modelling System, where he investigated the dynamics of the Southern Gyre as a key aspect of the Somali Current. He then used the data from the ocean model to force a Lagrangian Individual-Based Model to discern important pathways and barriers to coral larvae dispersal, finding that both the large-scale and mesoscale circulation play an important role in dispersal. With coral reefs being among the first ecosystem to be affected by global warming, he extended his research to establish the trend in bleaching level thermal stress, finding temporary refugia regions.

*Supervisor:* Professor C Reason (Oceanography)

*Co-supervisor:* Dr D Obura (Coastal Oceans Research and Development in the Indian Ocean (CORDIO))

Rodrigue Anicet Imbol Koungue

*Thesis Title: A study of Benguela Niños and Niños from 1958 to 2015*

Rodrigue Imbol Koungue holds a BSc in Physics from University of Yaoundé, Cameroon and a co-badged MSc in Physical Oceanography from the University of Abomey-Calavi, Cotonou, Benin and the University of Toulouse, France. He joined the Department of Oceanography at UCT in September 2014 to start his doctoral work.

Rodrigue Imbol Koungue's thesis focuses on Benguela Niños, characterized by warmer than normal sea surface temperature in the Angola-Namibia coastal fringe affecting fisheries and rainfall as far as South Africa. He studies their triggering mechanisms, investigating the link with the remote ocean dynamics from the equatorial region. He uses measurements from moorings deployed along the equator, remote-sensing data and solutions from ocean models. He starts by studying Benguela Niño events from 1998-2012. He shows that the remote forcing is at the origin of the development of most of the coastal events. Then he proceeds to systematically study all of the events that occurred before the satellite era, examining the role of the equatorial forcing and the local coastal drivers. He thoroughly describes new events, undocumented so far. His results open the possibility to predict Benguela Niños using an index depicting the equatorial dynamics, especially in the October-April season.

*Supervisor:* A/Professor M Rouault (Oceanography)

*Co-supervisor:* Dr S Illig (Oceanography)

Daneeja Mawren

*Thesis Title: Upper ocean variability and tropical cyclones in the south west Indian Ocean*

Daneeja Mawren completed a bachelor's degree with honours in Physics with Computing at the University of Mauritius. She then joined UCT to work on an MSc in Ocean and Climate Dynamics, followed by a PhD to specialise in tropical

cyclones.

Tropical cyclones are the most devastating weather phenomenon, particularly when they make landfall. Although much research has been done on tropical cyclone trajectories, skill in predicting cyclone intensity still lags behind. Daneeja Mawren's thesis focuses on upper ocean parameters important for tropical cyclone intensification. It is found that the frequency of Category-5 tropical cyclones in the South West Indian Ocean is increasing, possibly due to increases in upper ocean temperature characteristics. Some tropical cyclones tend to gain intensity just before they impact the coast. A regional ocean model was configured over the Mozambique Channel to look at the effect of tides on the upper ocean, which can potentially influence cyclone intensity. These tropical cyclones often cause heavy rainfall and flooding over Mozambique. Relationships between the upper ocean temperature, mixed layer depth, and eddy activity in the Mozambique Channel and rainfall over the southern African mainland were investigated.

*Supervisor:* Professor C Reason (Oceanography)

\*Ndunisani Precious Mongwe

*Thesis Title: Understanding modelled sea-air CO<sub>2</sub> flux biases in the Southern Ocean through the seasonal cycle*

Ndunisani Mongwe completed a BSc(Hons) Chemistry at the University of Pretoria, followed by an MSc in Ocean and Climate Dynamics at UCT. He began his doctoral work in 2015.

Ndunisani Mongwe's thesis investigates the representation of the seasonal cycle of ocean-atmosphere CO<sub>2</sub> fluxes in earth system models (ESM) from the CMIP5 in the Southern Ocean. ESM were previously shown to generally have poor skill in representing the seasonal variability of ocean-atmosphere CO<sub>2</sub> fluxes in the Southern Ocean. Ndunisani Mongwe develops an analytical method that can be used to link the model biases to the underlying physical and biogeochemical processes. Using this method, he is able to identify major bias sources in the models. Using



models under the ‘business as usual’ climate scenario, he demonstrates that these present-day biases in the seasonality of the carbon flux play a role in the way models simulate CO<sub>2</sub> fluxes in the future Southern Ocean. All models show an increased annual mean CO<sub>2</sub> uptake by the end of the century due to atmospheric increase, but the underlying uptake mechanisms are different and driven by present-day biases.

*Supervisor:* A/Professor M Vichi (Oceanography)

*Co-supervisor:* Dr P Monteiro (Council for Scientific and Industrial Research, CSIR)

Heriniaina Juliano Dani Ramanantsoa  
Thesis Title: *Variability of coastal upwelling south of Madagascar*

Heriniaina Ramanantsoa holds a Master’s in Applied Oceanology from the University of Toliara, Madagascar, and a Master’s in Remote Sensing and Disaster Risk from University of La Reunion, France. He joined the Department of Oceanography at UCT in 2015 for his PhD.

Heriniaina Ramanantsoa’s thesis has used multisensors of satellite observations, data sets from cruise measurements, existing historical data, as well as ocean model simulations, to investigate the variability of coastal upwelling and its associated forcing mechanisms that nourishes marine wildlife and fisheries at the south of Madagascar. His research reveals the existence of two separate coastal upwelling cells, namely Core 1 and Core 2, which have different variabilities due to the different forcings dominating each Core. Both Cores are induced by winds on the coastal zone and are significantly influenced by ocean currents from the east and west of Madagascar. While investigating the influences of ocean currents to the upwelling, the study identifies a previously unrecognized ocean current recently named the South-west Madagascar Coastal Current (SMACC). The study further describes the downstream impact of the SMACC to the coastal upwelling and to the ocean circulation at the south of Madagascar.

*Supervisor:* A/Professor M Rouault (Oceanography)

*Co-supervisors:* Dr M Krug (Council for Scientific and Industrial Research); Dr P Penven (Laboratoire d’Oceanographie Physique et Spatiale, Institute of Research for Development (IRD))

*In Physics:*

\* Zakhelumuzi Mesuli Khumalo  
Thesis Title: *Growth and characterisation of platinum and palladium catalysed silicon based nanostructures for nano-device fabrication*

Zakhelumuzi Khumalo holds a BSc(Hons) in Physics from the University of Zululand. Prior to joining UCT for his MSc and then PhD in Physics, he was enrolled in the NRF’s one year science training programme based at iThemba LABS in the Western Cape.

Zakhelumuzi Khumalo’s thesis first details the use of ion beam techniques for investigation into the reaction of platinum and palladium with silicon substrates that leads to the formation of silicide seeds necessary to grow silicon based nanostructures. He found that different types of nanostructures (size, shape, in-plane and out of plane) can be grown from the silicide seeds using different growth methodologies. For out of plane nanostructures grown with a formed oxide layer, he presented two approaches to reduce the unwanted oxidation layer. He further demonstrated that a combination of these two approaches reduces the oxide layer better than any other technique that is currently in use and therefore presents an alternative to the production of low cost, high yield, high conducting silicon nanomaterials that will find use in a range of semiconductor-based technology. Furthermore, he presented a reproducible method for eliminating hazardous acids during lithography device preparation with the use of silicide forming metal.

*Supervisor:* A/Professor M Blumenthal (Physics)

*Co-supervisor:* Dr M Topic (iThemba Labs)

Phumlani Zipho Ngcobo

Thesis Title: *Measurement of neutron production from an <sup>18</sup>O target for the production of radioactive-ion beams at iThemba LABS*

Phumlani Ngcobo completed his BSc at the University of Zululand. After five years of teaching, he joined the master’s programme offered by the University of Zululand in collaboration with the University of the Western Cape and iThemba LABS national facility. In 2012 he was awarded an NRF scholarship for his doctoral work.

Phumlani Ngcobo’s thesis reports on the suitability of oxygen-18 enriched water as a proton-to-neutron converter material. His work made use of the unique fast neutron beam facility at iThemba LABS and produced the first measurements of the neutron production cross sections for oxygen-18 above 25 MeV, using a thin oxygen-18 water target. Neutron yields were also measured using thick targets of oxygen-18 enriched water. The new measurements were critically compared with data for the more commonly used neutron-producing targets based on lithium-7 and beryllium-9. The results will inform the design of the neutron converter within the new radioactive ion beam facility being proposed for iThemba LABS, which will be used to research the behaviour of exotic nuclei.

*Supervisor:* Professor A Buffer (Physics)

*Co-supervisor:* Dr RA Bark (iThemba LABS, Nuclear Physics)

Timothy Mark Povall

Thesis Title: *Dense granular flow in rotating drums: a computational investigation of constitutive equations*

Timothy Povall has a BSc in Physics and Applied Maths, a BScHons and an MSc in Applied Maths degrees, all from UCT. His doctoral work emerged as a result of his research outcome in the Department of Physics at UCT.

Timothy Povall’s thesis is an investigation of the assumptions made for constitutive relations of rapid-dense granular flow. Simulations of rotating drums of varying speed were performed

using the Discrete Element Method. From the resulting data, kinematic and kinetic fields were extracted and used to investigate the validity of constitutive relations proposed in the literature. The friction coefficient for the granular constitutive relations was also investigated. An empirically-derived friction law has a better fit to the data when compared to other friction laws proposed in the literature. Scaling relations in the downward flowing layer in the drum were investigated. The thickness-flux scaling was measured by interpolating the flux over a number of slices through the flowing layer. It was found that the scaling is not constant throughout the flowing layer. The angle of repose was found to be highly dependent on the flux.

*Supervisor:* Professor I Govender  
(Chemical Engineering)  
*Co-supervisor:* Dr A McBride  
(University of Glasgow)

*In Statistical Ecology:*  
Gregory Duncan Duckworth  
Thesis Title: *Effects of protected areas and climate change on the occupancy dynamics of common bird species in South Africa*

Gregory Duckworth has an BSc(Hons) in Ecology and an MSc in Statistical Ecology, both from UCT.

Gregory Duckworth's thesis focuses on understanding the role of protected areas, land-use types and climate change on the population dynamics of resident bird species in South Africa. Using dynamic occupancy models, he models the effect of protected areas on the abundances of common bird species, and if the surrounding heterogeneous landscape impacted on the conservation potential of protected areas. He further investigates whether common bird species preferentially colonize landscapes with a higher proportion of protected areas, relative to landscapes with no protected area. Finally, he assesses how a warming climate affects a near threatened endemic species. Gregory Duckworth's findings confirm that protected areas are a key conservation tool. He further shows evidence of the negative effects of climate change on biodiversity. The results of

this thesis can be used for conservation planning and climate-change policy.

*Supervisor:* A/Professor R Altwegg  
(Statistical Sciences)

*In Statistical Sciences:*  
Tinashe Daniel Chatora  
Thesis Title: *Joint models for nonlinear longitudinal profiles in the presence of informative censoring*

Tinashe Chatora holds a BSc(Hons) in Actuarial Science and an MSc in Mathematical Statistics from UCT. He is employed as a Product Expert at Old Mutual, where he is responsible for actuarial and statistical modelling.

Tinashe Chatora's thesis focuses on the derivation and application of joint models for nonlinear longitudinal profiles in the presence of biased censoring and missing data. He uses data from malaria trials aimed at investigating the impact of current and novel treatments on the curtailment of gametocytes, the infectious parasites in a malaria infection. These models combine a nonlinear structure for the absorption and elimination of gametocytemia with cause-specific survival models for time to censoring due to loss to follow up, or treatment failure. The models cope with the underlying excess of zeroes and skew density distributions and are fitted in a Bayesian framework. The models allow for the imputation of the missing part of the gametocyte profiles and the subsequent estimation of duration of gametocytemia, and hence of the infectious phase of the infection.

*Supervisor:* A/Professor F Little  
(Statistical Sciences)  
*Co-supervisor:* Professor K Barnes  
(Medicine)

Alecia Nickless  
Thesis Title: *Regional CO2 flux estimates for South Africa through inverse modelling*

Alecia Nickless completed her BSc, BSc(Hons) and MSc qualifications at University of the Witwatersrand and began full-time study towards her PhD

at UCT in 2011 while a researcher at the CSIR. She is now a senior statistician at the University of Oxford.

Alecia Nickless's thesis reviews the requirements for a South African observation network of carbon dioxide (CO<sub>2</sub>) monitoring sites for the purpose of constraining estimates of CO<sub>2</sub> sources and sinks through the method of Bayesian inverse modelling. An optimal design for the placement of five new stations is provided, together with an assessment of the sensitivity of this solution to components of the Bayesian inverse modelling framework. An operational network was deployed for the City of Cape Town, and this thesis presents the results of the first city-scale Bayesian inversion for an African city. Sensitivity analyses demonstrate the importance of developing reliable estimates of biogenic fluxes if this methodology is to be used to constrain emissions from anthropogenic sources.

*Supervisor:* Dr B Erni (Statistical Sciences)  
*Co-supervisors:* Emeritus Professor L Underhill (Biological Sciences); Professor PJ Rayner (Earth Sciences, University of Melbourne); Professor RJ Scholes (Global Change, University of the Witwatersrand)

## 5. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

*Dean:* Professor A Lewis

### DEGREE OF DOCTOR OF PHILOSOPHY

*In Chemical Engineering:*  
Phumlani Convict Masilela  
Thesis Title: *Life cycle sustainability assessment of next generation energy infrastructure in Africa: Is there a case for biohydrogen after biomethane?*

Phumlani Masilela joined UCT in order to begin full-time study towards his PhD, having completed his studies at the University of Witwatersrand in 2012.



Phumlani Masilela's thesis investigates whether current and growing investments to produce and utilise biogas from organic wastes need to be reconceived as new bio-technology to generate hydrogen rather than methane becomes available. He develops this analysis using life cycle sustainability assessment, an integrative new methodology combining environmental, financial and social dimensions. In the thesis, he enumerates a weighted sustainability index for each of twelve scenarios, comprising two gas end uses (electricity and vehicle propulsion) from each of the two gases, from three different feedstocks. The thesis shows that at currently achievable yields of the two gases from the studied feedstocks, there is no strong case for admitting biohydrogen technology for recovering energy from available organic wastes, as biomethane installations generate more benefits.

*Supervisor:* Professor H von Blottnitz  
(Chemical Engineering)

\*Anna Paula Petersen

Thesis Title: *Alumina-modified cobalt catalysts for the Fischer-Tropsch synthesis*

Anna Petersen holds a BSc in Chemistry from the University of Leipzig, Germany and an MSc in Nanomaterials, Chemistry and Physics from Utrecht University, The Netherlands. During her master's she worked on preparation of iron nanoparticles and particle size effects in iron-based Fischer-Tropsch catalysts.

Anna Petersen's thesis focuses on gaining fundamental insights into the effects of metal-support interactions on cobalt-alumina based Fischer-Tropsch catalysts. She develops a method for the preparation of alumina-modified inverse-model catalysts, which isolate metal-support interactions from possible convoluting effects of particle size or support porosity. These model catalysts show that alumina decreases the reducibility of cobalt oxide by hindering hydrogen activation and nucleation of reduced cobalt phases. The alumina-modification introduces acid sites to the cobalt catalysts, which increases the rate of CO dissociation and shifts the Fischer-Tropsch product selectivity favourably

towards long chain hydrocarbons. Furthermore, the modified catalysts exhibit a higher metal dispersion and increased activity for the Fischer-Tropsch synthesis. Her thesis demonstrates a facile method to systematically study the role of promoters in heterogeneous catalysis.

*Supervisor:* Professor E van Steen  
(Chemical Engineering)

*Co-supervisor:* Professor M Claeys  
(Chemical Engineering)

*In Civil Engineering:*

\*Nosakhare Enoma

Thesis Title: *Studies on strength and stability of toroidal shell forms for containment applications*

Nosakhare Enoma holds a BEng degree from the University of Benin, Nigeria, and an MSc Engineering degree from the University of Newcastle, UK. He joined the Department of Civil Engineering at UCT in 2014 for his PhD studies. Prior to that, he was a lecturer at the University of Benin

Nosakhare Enoma's thesis seeks to investigate the strength and stability behaviour of toroidal shells of non-conventional shape, when required to resist pressure loading. He obtains shell stresses by combining the membrane solution with an approximate solution of the bending-theory equations. In seeking to understand the buckling behaviour, he proceeds by specialising the general stability equations of shells to the case of a multi-shell toroidal vessel under uniform external pressure and succeeds in obtaining an approximate solution for the critical buckling load. He then uses Finite Element modelling to conduct extensive parametric studies. He finds that perfect toroidal vessels under external pressure loading can generally have stable post-buckling behaviour. Overall, he concludes that the novel toroidal forms investigated are structurally viable from a strength and stability point of view, and therefore have potential for widespread application in industry as efficient containment vessels for liquids and gases.

*Supervisor:* Professor A Zingoni  
(Civil Engineering)

\*Asaph Mercy Kabaasha

Thesis Title: *Realistic modelling of leakage in water distribution pipe networks*

Asaph Kabaasha holds a BSc degree from the Kigali Institute of Science and Technology, Rwanda, as well as an MSc from the UNESCO-IHE Institute for Water Education, Netherlands and an MEng from the Asian Institute of Technology, Thailand. Before joining UCT, he worked in the water distribution industry in Rwanda.

Asaph Kabaasha's thesis investigates the implications of explicitly integrating a linear relationship between the areas of leak openings and pressure in hydraulic modelling of water distribution networks. Recent studies have shown that leak areas are not static, but generally vary linearly with water pressure. However, current hydraulic models do not consider this relationship, resulting in flawed simulation results. This study demonstrates the range of leakage simulation errors in current models based on stochastic leakage distributions in different networks. It also shows how integrating the area – pressure relationship of leaks improves the performance of optimisation models that include leakage. In particular, the study demonstrates improved performance of an optimisation model used to identify the size and location of leaks in a water pipe network. The findings of this study are useful to researchers and practitioners, allowing them to model the behaviour of leaks more accurately and thus develop better leak management strategies.

*Supervisor:* Professor K van Zyl (Civil Engineering)

*In Electrical Engineering:*

Adeyinka Victor Adebayo

Thesis Title: *Allocation of transmission losses to determine tariff*

Adeyinka Victor holds a Postgraduate Diploma in Electrical Engineering from Federal University of Technology, Akure and an MSc degree in Computer with Electronics from Lead City University, Ibadan, both in Nigeria. He was a lecturer at Lead City University until he joined the

UCT in 2014 for his doctoral research.

Adeyinka's research has addressed the problem of allocating losses in transmission systems in a transparent and economically marginal justifiable way. He proposes the separation of the transmission losses into two components of unavoidable and avoidable losses. Identifying by local measurement the Thévenin's equivalent circuit parameters of the power system and applying the general power theory developed at UCT, the approach quantifies the minimum possible losses for the delivery of the useful power component. The remaining loss caused by the flow of non-active power, which is associated with phase displacement, unbalance between the phase wires, and distortion, is specific to the load flow and the location of measurement; it reduces the efficiency of delivery and can be removed or supplied by local compensation. Therefore, the cost of the avoidable losses can be allocated to the supplier or customer at the point of connection to the network, while the unavoidable losses can be shared. The new approach can be applied to electricity tariffs and in power systems operating electricity markets.

*Supervisor:* Emeritus Professor CT Gaunt (Electrical Engineering)

*In Geomatics:*

Adedayo Kelvin Adeleke

Thesis Title: *Web-based GIS modelling of building-integrated solar photovoltaic system for the City of Cape Town*

Adedayo Adeleke holds a BScHons in Geographic Information Systems from UCT. He commenced his MSc in 2014 and successfully upgraded the studies to PhD in 2015. Before joining UCT, he worked in the private sector of Geomatics industry in Nigeria.

Adedayo Adeleke's thesis focuses on creating awareness about the potential of building-integrated solar photovoltaic systems in the City of Cape Town, using remote sensing and Geographic Information System techniques. This is done by developing efficient techniques of extracting building roof outlines and roof planes through the integration of LiDAR and high-

resolution aerial imagery data. Following roof feature extraction, solar radiation of each roof plane is derived from LiDAR surface models, which is then used to estimate solar photovoltaic potential of each building roof. It is found that an average building in the City of Cape Town could harvest most of its required electricity from rooftop solar photovoltaic installation. The information system is developed as a web-based tool, which can be queried to retrieve building solar energy potential and increase awareness in helping the Municipality achieve its desired 'green City' status.

*Supervisor:* A/Professor J Smit (Geo-Information Science)

*In Mechanical Engineering:*

Jonathan Olaf Paul Bergh

Thesis title: *On the evaluation of common design metrics for the optimization of non-axisymmetric endwall contours for a 1-stage turbine rotor*

After completing his Bachelor of Engineering at the University of Auckland, New Zealand and professional registration with the Institute of Engineers Australia, Jonathan Bergh worked professionally in both countries, predominantly in the oil and gas industries.

In response to the increasing demands placed on engine manufacturers to produce more efficient and environmentally-friendly engines, Jonathan Bergh's doctoral research centred on how best to design 3-dimensional design features located between turbine blades which are being increasingly used by manufacturers to improve their performance and efficiency of their engines. In order to determine the best candidate designs for each of the design metrics studied, high resolution computational fluid dynamics was coupled with the custom surrogate-based optimization methodology which allowed for the investigation of thousands of potential designs in a matter of weeks per metric rather than months and without the need for large cluster based computing resources. In addition to confirming the use of a well-known proxy as a robust means for endwall

design, the investigation also showed that even greater performance could be achieved through the use of a simplified formulation of the rotor efficiency.

*Supervisor:* Professor B Reddy (Mathematics and Applied Mathematics)  
*Co-supervisor:* Dr Glen C Snedden (CSIR)

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*The University of Cape Town gratefully acknowledges the sustained contributions of the following partners. Their generosity has assisted us toward our goals of improving student access to tertiary education and promoting curriculum, staff and student transformation; increasing our research capacity; and implementing programmes that promote social engagement and community upliftment.*

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- Vice-Chancellor's Circle: formerly R100 000 – R250 000, now R250 000 – R500 000;
- Dean's circle: formerly R60 000 – R100 000, now R100 000 – R250 000;
- Friends of UCT: formerly <R60,000, now <R100,000.

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# VISION AND MISSION

## UNIVERSITY OF CAPE TOWN

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### **Vision**

An inclusive and engaged research-intensive African university that inspires creativity through outstanding achievements in learning, discovery and citizenship; enhancing the lives of its students and staff, advancing a more equitable and sustainable social order and influencing the global higher education landscape.

### **Mission**

UCT is committed to engaging with the key issues of our natural and social worlds through outstanding teaching, research and scholarship. We seek to advance the status and distinctiveness of scholarship in Africa through building strategic partnerships across the continent, the global south and the rest of the world.

UCT provides a vibrant and supportive intellectual environment that attracts and connects people from all over the world.

We aim to produce graduates and future leaders who are influential locally and globally. Our qualifications are locally applicable and internationally acclaimed, underpinned by values of engaged citizenship and social justice. Our scholarship and research have a positive impact on our society and our environment.

We will actively advance the pace of transformation within our University and beyond, nurturing an inclusive institutional culture which embraces diversity.

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but the beginning of a new phase in your continuing relationship with UCT, one that  
you share with the UCT community of over 100 000 alumni.*

*Diverse as this community is, the shared experiences of a critical academic ethos  
and a spectacular campus make for a strong network that has a wide footprint,  
not only in South Africa, but across the continent and the globe.*

*We set a great store by our links with our alumni, and indeed the links alumni have with  
each other. We promise that we will be in touch, and ask you in turn to let us know  
not only your current contact details but also, from time to time, something  
of your lives and where you are in your careers.*

*Updates can be done on the web – <http://www.uct.ac.za/dad/alumni/update/>  
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