GRADUATION CEREMONIES
DECEMBER 2019

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Faculty of Health Sciences 2

NATIONAL ANTHEM

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.

FACULTIES OF HEALTH SCIENCES (CEREMONY 1) AND LAW

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 Peter Zilla 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.)

DISTINCTIONS IN THE FACULTY OF HEALTH SCIENCES

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.

DISTINCTIONS IN THE FACULTY OF LAW

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.

DECLARATION FOR HEALTH SCIENCES GRADUANDS

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.

FELLOWSHIP

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
2019:	T Douglas

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

FELLOWSHIP (CONTINUED)

Professor Peter Zilla

Chris Barnard Division of Cardiothoracic Surgery

Professor Zilla obtained his academic qualifications from the Universities of Vienna, Zurich and Cape Town, and his clinical qualifications from the Austrian Physicians Board and the Colleges of Medicine of South Africa. After graduating as "Doctor of Medicine" at the University of Vienna in 1980 he obtained a DMed degree from the University of Zurich (1983), a PD degree (PhD equivalent) from the University of Vienna and second PhD degree from the University of Cape Town in 1990.

After working in Vienna and Zurich, Professor Zilla in 1987 followed an invitation to set up a tissue engineering laboratory in Cape Town, and performed preclinical trials with his method of 'in vitro endothelialization'. When new operating theatres incorporating cell culture laboratories were custom built for this method of in vitro endothelialization in Austria he commenced a clinical programme, where he remained the scientific advisor for almost two decades. He went on to establish the Cardiovascular Research Unit (CRU) at the University of Cape Town in 1992 and continues to serve as the director of this unit. With a staged multi million rand investment the CRU has developed into a modern research institution with its own electron microscopes, state of the art experimental surgery, polymer, tissue culture and computer modelling laboratories. Uniting cardiology, lipidology and cardiac surgical research under one umbrella, he was instrumental in founding the 'Cape Heart Centre' at UCT and the 'MRC Cape Heart Group' in 1996, and became its director in 1999.

A further focus of Professor Zilla, improving heart valve prostheses for the young patients in developing countries, has led to a reduction of the prosthetic material degeneration process by 97%, the development of a fully polymer heart valve as well as a valve replacement solution for low to middle income countries. His engagement in the field of rheumatic heart disease has additionally awarded him international recognition as a plenary speaker.

Professor Zilla is author of 185 peer reviewed full papers and patents (104 times first author or corresponding author) having been cited >5,400 times with a total of 420 impact points and an H-factor of 49 (i10 Factor 135). Apart from holding 33 US/PCT patents (23 issued, 8 published and 2 filed), he is editor of 5 books and has authored 25 book chapters. He obtained international academic and industry grants of almost 80 million rand. For his research he has been awarded the Theodor Billroth Award (Austrian Surg Soc); Sigma Tau Award (Intern. Union of Angiology); Alexis Carrel Award (German Soc Vasc Surg); Goetz Award (SA Cardiac Soc); Eiselsberg Award (Austrian Physicians Assoc) and Alain Carpentier Award (Int. Soc. Heart Valve Dis), and was most recently awarded the Grand Decoration of Honour for Services to the Republic of Austria. He has been the organiser of five major international conferences in four different countries; is a member and executive council member of 10 international societies; was president of ISACB from 1994-98; is a regular reviewer of the 18 top journals in his field and is on the editorial board of 3 major international journals and Associate Editor of 'Biomaterials' (IF8.8).

However, perhaps Professor Zilla's most significant accomplishment has been uniting all of major heart organisations (STS, AATS, ASCVTS, and EACTS, the Australian and New Zealand Society of Cardiac and Thoracic Surgeons, the Brazilian Society of Cardiovascular Surgery, PASCAR and the World Heart Foundation) under a single interest group known as the Cardiac Surgery Intersociety Alliance (CSIA) to drive access cardiac surgery throughout the developing world. A joint statement known as the "Cape Town Declaration" was subsequently published in nine journals simultaneously, a concept which was initiated by Professor Zilla at the celebration of the 50th anniversary of the first heart transplant at Groote Schuur Hospital.

It is clear that Professor Zilla's international research standing, as well as his career-long contribution to cardiovascular device development alone make him a worthy recipient of a UCT Fellowship. Yet it has been his drive to make these innovations accessible to developing nations, as well as the initiative to focus worldwide attention on local cardiovascular health issues, which truly punctuate his contributions to academia.

NAMES OF GRADUANDS/DIPLOMATES

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

1. FACULTY OF HEALTH SCIENCES

Interim Dean:
Professor Carolyn Williamson

Before presenting the gruaduands/ diplomates, 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 ADDICTIONS CARE

Mohamed Reza Arieff
Nadia Arieff (with distinction)
Zukiswa Atricia Malgas
Catherine Angela Margaret Williams

POSTGRADUATE DIPLOMA IN ADVANCED MIDWIFERY AND NEONATAL CARE

*Katherine Fiona Christie (with distinction)

POSTGRADUATE DIPLOMA IN CHILD NURSING

Edith Ntombikayise Makhanya
*Noviwe Charity Mjali

POSTGRADUATE DIPLOMA IN CHILD CRITICAL CARE NURSING

Nozuko Pamela Mahuzi
Olgah Nontokozo Ndlovu

POSTGRADUATE DIPLOMA IN HEALTH ECONOMICS

*Nomakhwezi Mvumvu

POSTGRADUATE DIPLOMA IN HEALTH LEADERSHIP

Mumtaz Abbas (with distinction)
Neal Jonathan David (with distinction)
Glynis Amanda Denicker
*Juliet Evans
Ramsook Loykisoonlal
Malebonyane Elliot Mahase
Suha Suleiman Matar
*Zirkia Jacoba Nowers (with distinction)
*Almero Hendrik Oosthuizen (with distinction)
John Roos (with distinction)
Daniel Theron (with distinction)

POSTGRADUATE DIPLOMA IN HEALTH PROFESSIONAL EDUCATION

*Mzukisi Kolosa

POSTGRADUATE DIPLOMA IN OCCUPATIONAL HEALTH

*Foad Omran

POSTGRADUATE DIPLOMA IN PAEDIATRIC RADIOLOGY

*Isak Dawid Vorster

POSTGRADUATE DIPLOMA IN PALLIATIVE MEDICINE

*Nadia Booysen

2. FACULTY OF LAW

Dean: Professor Danwood Chirwa

POSTGRADUATE DIPLOMA IN LAW

In Employment Law and Social Security:
Sonwabile Aubrey Tshalata

DEGREE OF BACHELOR OF LAWS

Ureesa Mahilall
*Rugare Pazvakavambwa

3. FACULTY OF HEALTH SCIENCES

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS

In Medical Cell Biology:
Lebogang Lovedelia Kgabi

DEGREE OF MASTER OF MEDICINE

In Anaesthesia:
Aletta Conradie (with distinction in the dissertation)
Marcelle Crowther
*Kathleen Georgia Delport
*Willem Marcelle Jagga
Andries Thomas Joubert
Daniela Marsicano (with distinction in the dissertation)
*Robert Nicholas Swart
*Adri Vorster

In Anatomical Pathology:
*Brendon Price

In Dermatology:
*Eugene Rouf Hirschfeld
*Zandile Nanhla Elizabeth Spengane (with distinction in the dissertation)

In Emergency Medicine:
*Alyshah Zulfikar Alibhai
*Phillip Pieter Furstenburg
Joshua Glynn Gibson
*Nicola Anita McAlpine
*Antoinette Vanessa Naidoo
Kaveto Andreas Sikuvi

In Medicine:
*Cecilia Beatrice Irene Coccia
Marthinus Coenraad De Villiers (with distinction in the dissertation)
Innocent Ekparolaguaziba Francis
Edson Makambwa (with distinction in the dissertation)
Siviwe Ndamase
Rozeena Nordien

*Jean Jacques Noubiap Nzeale (with distinction in the dissertation)
*Vonwicks Czelestakov Onyango
Nectarios Sophocles Papavarnavas (with distinction in the dissertation)
Jason Ralph September
*Kudakwashe Simba (with distinction in the dissertation)
*Robert Baehner Smith

In Neurology:
*Sarvani Chetty
Wonga Matshikiza
*Saara Ndinelago Neshuku

In Neurosurgery:
*Ncedile Mankahla (with distinction in the dissertation)
*Emmanuel Wegoye

In Nuclear Medicine:
*Ahmed Rufai Isah

In Obstetrics & Gynaecology:
Rendani Osborn Tshikosi

In Ophthalmology:
*Norman Nieder-Heitmann

In Ororhinolaryngology
Abdulrauf Ibraheem Alhadad
Ndivhuwo Diale
Vincent Ian Pretorius

In Orthopaedic Surgery:
Johan Charilaou (with distinction in the dissertation)
Jeannie Katharine McCaul
*Adrian Kenneth Swan (with distinction in the dissertation)
*Stefan Swanepoel
*Matthew Ian Workman

In Paediatrics:
Michelle Rina Alisio
*Lona Albertha Mwenda
Nayestha Naidoo (with distinction in the dissertation)
*Sandhia Padayachee
Sadeeka Williams

In Pathology (Forensic):
*Laura Dawn Taylor (with distinction in the dissertation)
In Pathology (Haematological):
Annemarie De Koker

In Plastic & Reconstructive Surgery:
*Gertruida van Niekerk (with distinction in the dissertation)

In Psychiatry:
*Judith John Boshe
*Nada Lagerstrom
Avani Maharaj
Shazia Farah Mungly
Talia Kate Planting
*Jessica Ann Stanbridge
Sarel Jacobus Van Der Walt (with distinction in the dissertation)
*John-Randel Vermaak

In Public Health Medicine:
*Kirsten Louise Bobrow (with distinction in the dissertation)
Shrikant Maurice Peters

In Radiation Oncology:
Mambwe Paul Chilwesa (with distinction in the dissertation)

In Radiology:
Donovan George Jacobs
Napo Nalunga Sayfa Kasirye
Ferdinand Musawenkosi Oompie
*Hendrik Bellingan Schoombee
*Zorina September-Jaffer

In Surgery:
Ismail Aborkis
*Ferhana Gool
*Salah R.M. Husein
Henri Du Plessis Pickard
*Anthony Nicholas Sander (with distinction in the dissertation)

In Urology:
Christiaan Ernst De Wet

DEGREE OF MASTER OF PHILOSOPHY

In Addictions Mental Health:
Edrich Rall

In Biomedical Forensic Science:
*Toshika Sheshna Emrith (with distinction in the dissertation)
Fungisai Lorraine Musiyandaka
Nondumiso Khetsiwe Ntombi Shongwe
Tafadzwa Primrose Rudo Tawha (with distinction in the dissertation)

In Clinical Pharmacology:
*Hanan Ahmed Ltayef
Marian Tafadzwa Mazanhanga (with distinction in the coursework component)
*Buyisile Goodnature Mkhize

In Clinical Research Administration:
Makiti Thelma Leopeng (with distinction in the dissertation)

In Disability Studies:
Ronel Jessen

In Gynaecological Oncology:
Bothwell Takaingofa Guzha (with distinction in the dissertation)

In Health Sciences Education:
Tonny Zana

In Infectious Diseases & HIV Medicine:
*Sandra Chrystelle Domche Ngongang

In Intellectual Disability:
*Nicole Goldberg
Sarah-Jessica Strachan (with distinction in the dissertation)

In Maternal & Child Health:
*Alexander Adedotun Alagba
*Francis Bogie Boogere
Liesl Bertha Kay Dietrich

In Neuropsychiatry:
*Engelina Groenewald

In Occupational Health:
Vania Larice Aurelio Chongo Faruk (with distinction in the dissertation)

In Paediatric Gastroenterology:
*Christopher Bismarck Eke

In Palliative Medicine:
Joseph Wangisani Chisaka (with distinction in the coursework component)
*Rebecca Lazarus
*Olusoji Afolabi Soogun

In Public Mental Health:
Richard Banda
Rhulani Tsakani Beji-Chauke
Leandri Hattingh
Manson Mwachande Msiska
*Joyce Chikwinde Nambindo

In Surgery:
Alex John Scott (with distinction)

DEGREE OF MASTER OF PHILOSOPHY IN EMERGENCY MEDICINE

In Clinical Emergency Medicine:
*Mohammed Naseef Abdullah
Shamiel Areff (with distinction in the dissertation)
Beatrix Hendrina Bester
Chloe Ashton Buma
Jurgen Werner Kahle (with distinction in the dissertation)
*Dennis Wambua Muange
Charnelle Stander
Helen Strachan

In Patient Safety & Clinical Decision-Making A:
Zina Bam

DEGREE OF MASTER OF PUBLIC HEALTH

Kirran Shea De Leeuw
Francisco Javier Fong
Petrus Ndiiluka Kosmas

In Community Eye Health:
Abraham A Opare (with distinction in the dissertation)
*Maduabuchi Samuel Stephen (with distinction in the dissertation)

In Epidemiology:
Herman Joseph Bagula
Shani Tamlyn De Beer (with distinction)
*Tinne Dirk Hilde Gils (with distinction)
Patrick Luke Hannan (with distinction)
Nai-Chung Hu (with distinction in the dissertation)
Hlengiwe Pretty Madlala (with distinction in the dissertation)
Dumsile Nontokozo Maduna (with distinction in the dissertation)
Thandiwe Runyararo Mashunye (with distinction)
Trish Muzenda (with distinction)
Olona Mzimkulu
Imaan Amina Roomaney
Jacob Adriaan Maritz Stadler (with distinction in the dissertation)
Claudine Van De Venter
*Nesbert Zinyakatira (with distinction in the dissertation)

In Health Economics:
Neide Mercia Canana
*Benson Karingithi Chuma
Mina Haji
Maria Jose (with distinction)
*Carl Jacob Mhina
Douglas Kabamba Mushinge (with distinction in the dissertation)
Keolebogile Mable Selebano

In Health Systems:
*Sarah Abdulhady (with distinction)
Edina Amponsah-Dacosta (with distinction)
Isatu Jalloh (with distinction in the dissertation)

In Social & Behavioural Sciences:
Eugene Lee Davids
Caroline Marie Deignan (with distinction in the coursework component)
Yolanda Gomba
*Pakhani Mhazo
Fransien Schoeman (with distinction in the dissertation)

DEGREE OF MASTER OF SCIENCE IN AUDIOLOGY

Nikki Tromp

DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

Christopher Andrew Herbert
Vincent Martin Hülk (with distinction)
Struan Hume (with distinction)
Johannes Petrus Jordaan (with distinction)
Andrew Lin (with distinction)

DEGREE OF MASTER OF SCIENCE IN EXERCISE AND SPORTS PHYSIOTHERAPY

*Curt Arthur Barnes
*Darryn Christopher Berry
*Sheenagh Joan Cardis (with distinction in the coursework component)
*Jessica Rabbitte (with distinction in the dissertation)
Sandhya Prakash Silal (with distinction in the dissertation)
Damian James Swartz

DEGREE OF MASTER OF SCIENCE IN MEDICINE

In Anatomy
Kyle Joseph Catharina Paulssen

In Bioinformatics:
Clare Elaine Dorothea Garrard (with distinction)

In Biomaterials:
*Jeran Andre Cloete
Johan Coetzee
David Gideon Conradie (with distinction)
*Carla Astrid Gustafsson (with distinction)

In Biomedical Engineering:
Muhammad Saadiq Gasant (with distinction)
*Quik Kung (with distinction)

In Chemical Biology:
Claudia Albeldas (with distinction)
*Zaria Phindile Malindi
Elizabeth Louise Waldron

In Clinical Pharmacology:
Cleavon Kader Cloete
Lucas Jacobus Oberholster (with distinction)

In Clinical Science and Immunology:
*Rachel Tal Esra (with distinction)

In Dietetics:
*Stephanie Marie Krige (with distinction)

In Exercise Science:
Moses Isiagi (with distinction)
Kathryn Merle Van Boom (with distinction)

In Genetic Counselling:
Kelly Barrow
Maxine Du Toit (with distinction in the dissertation)

In Human Genetics:
*Tshepiso Rachel Masekoameng (with distinction)
Maryanne Sophia Mufford (with distinction)

In Mechanobiology:
Rochelle Smith

In Medical Biochemistry:
Bianca Abrahams (with distinction)
Michael Obinna Okpara (with distinction)
Ellis Chipo Theresa Tsetse (with distinction)

In Medical Cell Biology:
Stephanie Maria Ncube (with distinction)

In Medical Microbiology:
Michelle Rudo Kanjere
Saara Kanyemba (with distinction)

In Medical Virology:
*Thandi Elsie Magwai

In Medicine:
Avuyonke Balfour
Lee Danny Sarkin (with distinction)

In Neuroscience (Surgery):
Joanah Shamiso Madzime

In Paediatrics:
Shirani Naidoo

In Physiology:
*Tamzyn Elizabeth Murphy (with distinction)
Prisca Ofure Osiki

In Surgery:
*Yolandi Ferreira

In Trichology & Cosmetic Science:
Kutlwano Antonette Chabaesele
Temwani Chalwa (with distinction)

In Urology:
Evans Ametefe Akpakli

DEGREE OF MASTER OF SCIENCE IN NURSING

Dempto Boniface Bidii
Naomi Joyous Likumbo

DEGREE OF MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

*Hannah Kambowe
Meghan Lee Mackenzie Krenzer (with distinction)
Amy Peta Menegaldo (with distinction)
Barbara Anastatia Beverley Stemmert (with distinction in the dissertation)
Ilande Vorster (with distinction in the dissertation)
Ann Frances Watkyns (with distinction)

DEGREE OF MASTER OF SCIENCE IN PHYSIOTHERAPY

Carmen Britz

DEGREE OF MASTER OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY

Jessica Carmen Dean (with distinction)
*Chevonne Desiree Du Plessis (with distinction)
Cynthia Ngirazi Sibanda
Amy Sarah Wilkes

4. FACULTY OF LAW

DEGREE OF MASTER OF LAWS

Göksen Effendi
*Conor McGreevy

In Commercial Law:
Lisbella Patricia Belchior
Nirvana Deonandan
*Abimbola Eniola
Somaya Fakir
Dharshini Govender
*Nicola Ann Harvey (with distinction)
Charity Nkomo
Anele Nongogo
Kelsey Amy Pailman (with distinction)
Olivia Jordan Radford (with distinction)
Lauren Kate Wrigley (with distinction)

In Constitutional and Administrative Law:
Mandisa Lusanda Shandu (with distinction)

In Criminology, Law and Society:
*Eva Maria Bäcker
Chelsea Theresa Cohen
Michael Taylor McLaggan
*Kelly November
Riyaadh Young

In Environmental Law:
Ashleigh Dore
*Xisolle Mingas Dos Reis
Julia Emma Rushton

In Human Rights Law:
Jessica Ashley Burn
Didem Demir (with distinction in the dissertation)
Tess Bridget Joy Fernan (with distinction)
*Megan Catherine Lee
*Nikolaus Jan Cornelius Lüpke
Lynn Mackenzie
Rachael Nyirongo
Jana Peters
*Rosalie Tamara Hana Seppelt (with distinction)
*Alexa Walz (with distinction)

In Intellectual Property Law:
Richard Cornelis Marais (with distinction)
*Vera Mogk (with distinction in the dissertation)

In International Law:
Jessica Rae Laing
*Laura Katharina Riedner

In International Taxation:
*Michiel Eksteen
Karla Els
Charis Kate Pickford

In International Trade Law:
John Jay Grunder
Caitlin Megan Harvey (with distinction)
*Anna Todorova Ivanova
Abbey-Jean Macfarlane
Kudzai Mhepo
Yakubu Idisire Nagu (with distinction in the dissertation)

In Labour Law:
*Caitlin Sarah Bruce
*Pranisha Maharaj
*Andre Van Heerden

In Private Law:
Vuyisile Hope Ncube (with distinction)

In Private Law and Human Rights:
Chiedza Gwaka

In Public Law:
*Paul Nkoane
*Nondumiso Thelma Phenyane
Alison Vadachalam

In Shipping Law:
Sharon Phumzile Msiza

In Tax Law:
*Johan Muller Botha
Mashooma Parker

DEGREE OF MASTER OF LAWS IN COMMERCIAL LAW

Marthe Ines Grace Ngo Mandeng
Chulumanco Potye
Beata Ndaendelao Siteketa

DEGREE OF MASTER OF LAWS IN DISPUTE RESOLUTION

Lisebo Mary Kotelo
Sikhulile Mshengu
Thora Sikholiwe

DEGREE OF MASTER OF LAWS IN ENVIRONMENTAL LAW

*Jennifer Hofmeyr De Villiers
*Sonam Mansingh
Keatlegile Phenyo Maremane
Allyson Petersen

DEGREE OF MASTER OF LAWS IN INTELLECTUAL PROPERTY LAW

James Abinger McCarthy

DEGREE OF MASTER OF LAWS IN INTERNATIONAL TRADE LAW

*Florian Ernst Kozok

DEGREE OF MASTER OF LAWS IN SHIPPING LAW

Nura Conroy

DEGREE OF MASTER OF PHILOSOPHY

In Commercial Law:
Dale Jeremy McGregor

In Human Rights Law:
*Tasneem Kalla
*Kiah Brown Murphy
*Michaela Cecile Mycroft
Refiloe Mapitso Thaisi

In Labour Law:
Roger Peter Ronnie

In Tax Law:
Linton Clyde Naidoo
Brendon John Smith

DEGREE OF DOCTOR OF PHILOSOPHY

In Private Law:
Francois Jurgens
Thesis Title: *Risk as injury: an alternative interpretation of the South African law of defamation*

Francois Jurgens completed his BA(Hons) at Rhodes University, and his LLB and MA degrees at UCT. He began his PhD in 2013, while working as a Teaching Assistant in the Department of Private Law.

Francois Jurgens's thesis presents an alternative interpretation of the rules constituting the South African law of defamation. Defamation is typically understood to be a wrong in which the defendant has caused the plaintiff reputational harm. It is argued that it is more justifiable to view the wrong as a wrong of having increased the risk of reputational harm. Defamation law is an instance of state power and it is argued that this alternative interpretation better justifies that exercise of power. The fundamental features of the law are analysed, including why we value reputation, why it is problematic to view the wrong as being about the causation of reputational harm, and why liability for risk is problematic in the case of negligence but less problematic in the case of defamation. It is shown that this interpretation is compatible with the rules that currently exist.

Supervisor: Professor A Fagan (Private Law)

Fatima Osman
Thesis Title: *The administration of customary law estates post the enactment of the reform of customary law of succession act: a case study from rural Eastern Cape, South Africa*

Fatima Osman completed her BBusSc, LLB and LLM qualifications at UCT, and began full-time study towards her PhD in 2014.

Fatima Osman's thesis examines the administration of customary law estates through a case study in rural Eastern Cape. She used a triangulation method of study to illustrate the pluralistic manner in which estates are administered and the practical implementation of legislative provisions. Her study found substantial conformance to the current framework for administration of estates whilst simultaneously exposing lacunae therein and the gendered nature of property grabbing. Using her findings supported by the literature, she makes practical recommendations for integrated reform measures to improve the realisation of inheritance rights. Her findings also have broader implications and relevance for legislating on customary law matters generally and will be useful in future law reform.

Supervisor: Professor C Himonga (Private Law)

In Public Law:
Musa Kika
Thesis Title: *Fashioning judicial remedies that work in a constitutional society – establishing a framework for a functional approach to the awarding of constitutional damages in South African law and comparative jurisdictions*

Musa Kika completed an LLB at the University of KwaZulu-Natal in 2014, receiving the university's Distinguished Student Award. He received an LLM at Harvard Law School in 2017. He began full-time study as a Mandela Rhodes Scholar at UCT in 2015.

Musa Kika's thesis examines the propriety of awarding monetary compensation as appropriate relief for violation of constitutional rights in South Africa. He examines the

Constitution and case law on claims for monetary relief for such violations in South African courts post-1993. He finds that there is ambiguity in process and approach. He then examines the approaches taken by comparative and developed democracies. With the benefit of this analysis as well as the goals of South Africa's transformative constitutional project, he finds constitutional damages to be permissible in our law, and he suggests a hybrid and functional approach which is tailor-made and purpose-oriented, and which he says would help do away with a formalistic approach that has stunted the growth of the remedy. These findings will guide litigants and judges in assessing constitutional damages claims in South Africa and comparative democracies.

Supervisor: Professor H Corder
(Public Law)

Victoria Melkisedeck Lihiru
Thesis Title: *Participatory constitutional reforms vs. realization of equal representation of men and women in the parliaments: a study of Kenya, Rwanda and Tanzania*

Victoria Lihiru holds an LLB from Mzumbe University and LLM from the University of Dar es Salaam. She commenced PhD studies in Law at UCT in 2016, and is currently an Assistant Lecturer at the Open University of Tanzania.

Victoria Lihiru's thesis asks whether participatory constitution-making advances the realisation of equal representation of men and women in parliaments. She analyses the Rwandan, Kenyan and Tanzanian constitution-making processes in relation to article 25 of the International Covenant on Civil and Political Rights and articles 4 and 7 of the Convention on the Elimination of All Forms of Discrimination Against Women. She argues that women participate in constitution-making and decision-making processes when the constitution and electoral and political legislation make provision for them to do so. She suggests that challenges related to the practice of temporary special measures and electoral systems hinder the realisation of substantive equality for men and women in parliament. She concludes that eradication of temporary special measures and adoption of an equality-based proportional representation electoral system can lead to the attainment of meaningful equal representation of men and women in parliaments.

Supervisor: A/Professor W Amien
(Public Law)

5. FACULTY OF HEALTH SCIENCES

DEGREE OF DOCTOR OF PHILOSOPHY

In Chemical Biology:
Shaun Garnett
Thesis Title: *Generating a proteomic profile of neurogenesis, through the use of human foetal neural stem cells*

Shaun Garnett completed his BSc majoring in Biochemistry, Physiology and Genetics at the University of the Free State. He then moved to UCT to complete BSc(Med(Hons) in Medical Biochemistry. In 2010 he began a master's degree that was upgraded to a PhD, studying the proteomics on human foetal neural stem cells.

Shaun Garnett's thesis reports on a comprehensive description of the difference between human foetal neural stem cells from five week and nine-week-old human foetal hindbrain. He made use of transcriptomic and proteomic data to describe the mechanisms controlling early brain development. In the process he discovered several molecules responsible for maintaining the pluripotency of early neuroepithelial stem cells. He proposed potential candidates for follow-up studies that could lead to development of drugs for brain regenerative therapies. In addition, he highlighted complex changes occurring in the neural stem cells from nine-week-old foetal hindbrain that would make them more responsive to their cellular environment. He identified signalling pathways and cell surface changes that influence the development and differentiation of these cells.

Supervisor: Professor J Blackburn
(Integrative Biomedical Sciences)
Co-supervisor: Emeritus Professor S Kidson (Human Biology)

In Clinical Science & Immunology:
Alisha Chetty
Thesis Title: *Bystander influence of nematode exposure on subsequent herpesvirus infections in vivo*

Alisha Chetty completed her BSc in Biomedical Science at the University of KwaZulu-Natal, Durban, her BSc(Med) (Hons) in Infectious Diseases and Immunology at the University of Cape Town, and began her full-time PhD study at UCT in 2015.

Alisha Chetty's thesis aims to understand the bystander influence of soil-transmitted helminths on host immunity and susceptibility to herpesvirus coinfections in vivo. She generates significant evidence on this topic, showing a profound, long-lasting effect of helminth exposure on host immunity. She finds that prior hookworm exposure alters immunity and susceptibility to subsequent gamma- and alpha-herpesvirus infections, in colonised and un-colonised organs respectively. Her findings have relevance considering the high, overlapping prevalence of herpesvirus and parasitic worm infections in Sub-Saharan Africa.

Supervisor: A/Professor W Horsnell
(Pathology)
Co-supervisor: Dr B Dewals
(Immunology-Vaccinology, Faculty of Veterinary Medicine, University of Liège, Liège, Belgium)

Lerato Hlaka
Thesis Title: *Investigation of minor groove binders (MGB), non-ionic surfactant vesicles (NIV) delivery systems and IL-4i1 as novel pathogen- and host-directed drug therapy for tuberculosis*

Lerato Hlaka holds BSc and MSc degrees in Biological Sciences from

the University of KwaZulu-Natal. She joined the International Centre for Genetic Engineering and Biotechnology and Division of Immunology at UCT for her PhD studies in Clinical Sciences and Immunology in 2015.

Lerato Hlaka's thesis focuses on identifying potential drug targets for pathogen- and host- directed therapy for the world's deadliest epidemic, tuberculosis. Her work addresses the efficiency of two Minor Groove Binder compounds that target the AT-rich regions of the minor groove of Mycobacterium tuberculosis DNA to inhibit its replication, as a potential target for pathogen-directed therapy. The use of a reliable delivery system (NIVs) improves the efficacy of these compounds. She further identified a potential target gene IL-4i1 through CAGE technology responsible for macrophage mediated immune responses as a potential target for host-directed therapy for tuberculosis. The findings from this work could contribute to the development of possible new drug targets for effective TB therapy, providing a stepping-stone towards the development of new drugs and vaccines. This contributes significantly to combating the world's most prevalent and life-threatening disease, TB.

Supervisor: A/Professor R Guler (Pathology)
Co-supervisors: Professor F Brombacher (Pathology); Dr M Ozturk (Pathology)

Samuel Mundia Kariuki
Thesis Title: *Male genital tract versus blood HIV-1 compartmentalization and selection: the first step of the transmission bottleneck?*

Samuel Kariuki completed a BSc in Microbiology at Moi University, Kenya, and an MSc in Molecular Biology in Belgium. He then joined UCT for his doctoral studies.

Samuel Kariuki's thesis uses next generation sequencing technology to understand the nature of HIV-1 populations compartmentalised between the general circulation (blood) and the male genital tract. Unlike previous studies, his study showed that HIV-1 compartmentalisation was present in all participants who were tested in the study. In addition, the work also showed that selection for some traits of the virus that establishes infection in the recipient (also called transmitted/ founder virus) may have begun earlier than previously thought, i.e. in the genital tract HIV-1 populations of the transmitting donor. These traits include sensitivity to donor's antibodies and entry phenotype. These findings are useful in understanding the nature and selection of HIV-1 populations in the male genital tract that are available for transmission to a new individual. This will benefit vaccine design and HIV-1 prevention strategies.

Supervisor: A/Professor J Dorfman (Pathology)
Co-supervisor: Professor C Williamson (Pathology)

In Exercise Science:
Louise Diana Clamp
Thesis Title: *The role of metabolic rate and substrate utilization in the maintenance of body weight, body composition and insulin sensitivity*

Following a career in finance, Louise Clamp returned to study completing a BSc (biochemistry and physiology) from Unisa and BSc(Med)(Hons) degrees in both Exercise Science and Dietetics from UCT. She began working on her doctorate in 2013 at UCT in the Division of Exercise Science and Sports Medicine.

Louise Clamp's thesis addresses obesity treatment, both through weight loss and weight loss maintenance, specifically examining the role of metabolic rate and substrate utilisation in the maintenance of body weight, body composition and insulin sensitivity. Baseline substrate utilisation has a significant role in changes in both body composition and cardiorespiratory fitness in response to 12 weeks of exercise training in sedentary obese women. Identifying individuals with a lower capacity for fat oxidation may allow for individualised training programmes to improve results from exercise training. In weight loss maintenance, particular lifestyle strategies were potentially effective at counteracting declines in metabolic rate associated with weight loss. However, weight loss confers enhanced insulin sensitivity which may increase risk for weight loss relapse. These findings can be used to improve the success of weight loss maintenance programs.

Supervisor: Dr J Kroff (Human Biology)
Co-supervisor: Professor JH Goedecke (Human Biology)

Caylee Jayde Cook
Thesis Title: *Executive function and physical activity in preschool children from low-income settings in South Africa*

Caylee Cook completed her BSc (Sports Science) degree and BSc(Hons) in Sports Science (Kinderkinetics) at Stellenbosch University. She started her MSc (Exercise Science) degree at UCT in 2015 and upgraded to a PhD in Exercise Science in 2016.

Caylee Cook's thesis reports on components of cognitive development (executive function, self-regulation, selective attention and school readiness) and components of physical development (physical activity, and gross motor skills) of preschool-aged children from a rural village in Bushbuckridge (Mpumalanga) and Soweto (Gauteng). The aim was to determine relationships between cognitive and physical development. She reports that preschool-aged children engage in high volumes of physical activity, display good gross motor skill proficiency and high levels of executive function, but low school readiness skills in the rural setting. She also reported positive associations between gross motor skills and all components of cognitive development, but not between physical activity and all components of cognitive development. These results uncovered the potential of preschool-aged children for later learning, development and health, but that school readiness interventions are needed, recognising and addressing unique

contexts and considerations of these settings.

Supervisor: Dr C Draper (Human Biology)
Co-supervisors: Professor G Scerif (Experimental Psychology, University of Oxford); A/Professor S Howard (School of Education, University of Wollongong)

Wendy Lynn Holliday
Thesis Title: *Intrinsic factors, performance and dynamic kinematics in optimisation of cycling biomechanics*

Wendy Holliday completed her BSc Physiotherapy qualification at UCT in 2006 and after a few years of gaining clinical work experience, began full-time study towards her PhD in 2014.

Wendy Holliday's thesis investigates how intrinsic factors, performance and kinematics play a role in the optimisation of cycling biomechanics. The thesis investigates the validity of different bike fitting measurement tools, how individual factors, such as flexibility, can play a role in preferred bicycle configuration, and how the body position, muscle activity and saddle pressure mapping adjust to increasing cycling intensities. The findings show that flexibility and specific anthropometrics determine the cycling position as well as enhancing performance. Full body kinematics, muscle activity and saddle pressure indexes are dependent on workload. Lastly, bike fitting measurement methods had high reliability, but measures of static and dynamic kinematics are not interchangeable. It is therefore important to consider cycling intensity when performing a bike fit in order to optimise the cyclist's position, muscle activity and saddle comfort. These findings are useful in the clinical application of cycling biomechanics.

Supervisor: Dr J Swart (Human Biology)
Co-supervisor: Dr J Fisher (Human Biology)

In Medical Microbiology:
Terry Kipkorir
Thesis Title: *Riboswitch regulation of methionine metabolism and vitamin B12 uptake in mycobacteria – implications for drug susceptibility and pathogenesis*

Terry Kipkorir obtained a Bachelor of Arts in Biology from Yale University, after which he worked in the Yale University School of Medicine as a research associate studying prion diseases. He began full-time study toward his PhD at UCT in 2015.

Terry Kipkorir's thesis examines the differential capacities of environmental versus pathogenic mycobacteria for methionine, folate and vitamin B12 metabolism. He begins by analysing the genetic pathways for vitamin B12 biosynthesis in mycobacterial genomes, establishing that de novo biosynthesis of this cofactor is biased toward environmental species. He then goes on to demonstrate the production of vitamin B12 in the model mycobacterium, Mycobacterium smegmatis, and describes a mechanism by which the availability of vitamin B12 controls bacterial growth by regulating methionine biosynthesis, in turn driving resistance to anti-folate antibiotics. These findings provide a lens through which to consider the regulation and utilization of vitamin B12 in Mycobacterium. tuberculosis, cause of tuberculosis (TB), raising the potential to exploit this knowledge in the development of new anti-TB drugs.

Supervisor: Professor DF Warner (Pathology)
Co-supervisor: Professor V Mizrahi (Medicine)

Anna Olutoyin Ojo
Thesis Title: *The bacteriome and metabolome of human breast milk and their association with infant growth*

Anna Ojo holds a BSc from Imo State University, Nigeria and an MSc in Biomedical Science from the University of Antwerp, Belgium. In 2016, she started her PhD in the Division of Medical Microbiology at UCT.

Anna Ojo's thesis reports on the bacteriome (bacterial communities) and metabolome of human breast milk (HBM) samples collected between 6-10 weeks postpartum from lactating women living in South Africa. Using next generation sequencing, she has shown that the bacteriome clusters into three different biotypes according to the predominant bacterial genus present. Of the determinants investigated, study site (a proxy for ethnicity) was associated with differences in HBM bacteriome composition. Finally, using nuclear magnetic resonance spectroscopy, a subset of women with low levels of HBM lactose concentrations was identified. Low-lactose HBM was associated with microbial dysbiosis and reduced infant growth during the period of exclusive breastfeeding. These results suggest that bacterial fermentation of lactose results in low-lactose breast milk, which in turn impacts on breastfeeding outcome. Together, these findings provide opportunity for diagnostic and therapeutic interventions and help promote (exclusive) breastfeeding to improve infant health.

Supervisor: Dr E du Toit (Pathology)
Co-supervisor: Professor M Nicol (Pathology)

In Medicine:
Dimakatso Bertha Gumede
Thesis Title: *Investigating the role of a FAM111B mutation in Hereditary Fibrosing Poikiloderma (POIKTMP) using Induced Pluripotent Stem Cell (iPSC) model*

Dimakatso Gumede completed her BSc at the University of KwaZulu-Natal and began her postgraduate studies at UCT in 2008. She joined the Department of Medicine for her doctoral research under the supervision of the late Professor Bongani Mayosi in 2012 and Professor Susan Kidson in 2013.

Dimakatso Gumede's thesis focuses on a rare hereditary dermatological condition affecting a South African family known as hereditary fibrosing poikiloderma with myopathy, tendon contractures and lung fibrosis. This genetic condition is caused by a mutation in the Family

with sequence similarity 111B (FAM111B) gene of unknown function. Her study used patient skin cells to derive pluripotent stem cells foUCTr creation of an in vitro cellular model. The study reveals that the FAM111B mutation causes a higher proliferation of the patient cells compared to controls suggesting that the mutation modulates cell cycle regulation. The results of this study will be useful in uncovering the function of the FAM111B gene for treatment of this condition.

Supervisor: Emeritus Professor S Kidson (Human Biology)
Co-supervisor: Dr R Ballo (Human Biology)

Godsent Chichebem Isiguzo
Thesis Title: *The role and essence of pilot trials and subgroup analysis in cardiovascular research: the IMPI trial experience*

Godsent Isiguzo is a qualified Cardiologist who holds an MBBS from Abia State University Nigeria and Fellowship of the West African College of Physicians. In 2016 he joined the Division of Cardiology at UCT as a research fellow to start his PhD.

Godsent Isiguzo's thesis uses the Investigation of Management of Pericarditis (IMPI) trials to explore and describe the potential use of pilot studies and sub-group analyses in resource limited environments where successful conduct and completion of large expensive randomised controlled trials has historically been challenging. Using the pilot phase of the IMPI-2, the thesis describes practical challenges and lessons learned which will prepare the IMPI-2 investigators for the main phase of randomised controlled trial. He describes the use of the pilot to test an informed consent process assessment tool's capacity to enhance patient insight and comprehension of the study prior to conduct of the full trial. Finally, he describes the use of a statistical analytical approach that uses information and data from the IMPI-1 trial, to effectively and reliably answer an important clinically relevant question that obviates the need to conduct another expensive and resource intensive clinical trial.

Supervisor: Professor M Ntsekhe (Medicine)
Co-supervisors: Professor L Thabane (McMaster University, Biostatistics Unit); Professor K Sliwa-Hahnle (Medicine); Dr F Gumedze (Statistical Sciences)

David Karpul
Thesis Title: *On the application and generation of subsensory electrical nerve stimulation for the improvement of vibration perception in patients with HIV-related sensory neuropathy*

David Karpul holds a BSc(Eng) (Mechatronics) and an MSc (Engineering). He worked as a researcher in Biomechanics and lecturer in Engineering at UCT. He registered for his PhD in 2015 at Western Sydney University, and co-registered at UCT in 2016.

David Karpul's thesis focuses on a potential treatment to recover lost touch sensitivity in patients with HIV. The treatment applies small electric currents to the peripheral nerves to affect the way nerve signals are generated and transmitted. The thesis examines the effect of the treatment on HIV patients with reduced touch sensitivity and finds that it has the potential to improve touch sensitivity, but that more research is required before it can be used in practice. One of the limiting factors in this field of research is that the equipment to apply the electrical currents cannot be used outside of the laboratory. The thesis addresses this by developing a complete and thoroughly tested electronic stimulator for non-laboratory environments. The device is significantly smaller and lighter than all other available equipment and is the first such design that shows promise to be used in long term treatments of this kind.

Supervisor: A/Professor J Heckmann (Medicine)
Co-supervisors: A/Professor P Breen (The MARCS Institute for Brain, Behaviour and Development, Western Sydney University); Professor A van Schaik (The MARCS Institute for Brain, Behaviour and Development; Western Sydney University)

Sarah Mignon Kraus
Thesis Title: *The rationale, design and implementation of the African cardiomyopathy and myocarditis registry*

Sarah Kraus completed her MBChB at UCT in 2005, graduating with honours and distinction in the final examinations. She became a Fellow of the College of Physicians of South Africa in 2013, after which she began her PhD fellowship in UCT's Department of Medicine.

Sarah Kraus' thesis focuses on the rationale, design and implementation of the African Cardiomyopathy and Myocarditis Registry Program, the IMHOTEP Study. This multicentre prospective study aims to describe the clinical characteristics, aetiology, genetics, and outcome of cardiomyopathies in both children and adults on the African continent. Through the application of a tailored diagnostic approach, she demonstrates the diverse aetiology underlying heart muscle disease in 302 unrelated patients, reporting a younger age of onset of disease compared to European patients with cardiomyopathy. She describes the complexities of phenotypic variation within 35 families with inherited cardiomyopathies. This lays the foundation for future molecular genetics research in the pursuit of novel genetic causes of heart muscle disease, and explores the unique challenges related to genetic variant interpretation in the African clinical context.

Supervisors: late Professor B Mayosi (Medicine) and Professor N Ntusi (Medicine)

Olivia Precious Matshabane
Thesis Title: *Exploring how a genetic attribution to disease relates to internalised stigma experiences of Xhosa people with schizophrenia and rheumatic heart disease in South Africa*

Olivia Matshabane completed her

bachelor's degree in Psychology at the University of the Western Cape. She proceeded to complete her honours and master's in Psychology at Stellenbosch University. She began work on her PhD in Medicine at UCT in 2016.

Olivia Matshabane's research is a mixed-methods study, focusing on exploring how a genetic explanation to disease may impact on internalised stigma experienced by Xhosa people with schizophrenia and those with rheumatic heart disease. Through the use of focus-group discussions she explored the possible influence of increased genetic knowledge of a disease – which is likely to occur through genomics studies – on their stigma experiences. She found that while participants had a general understanding of genetics in relation to disease, that knowledge seemed unlikely to influence their stigma experiences. This result can be explained in part by the participants' description of being challenged by the pressing immediate effects of poverty and disease-related stigma and discrimination and by the fact that participants attributed their disease to a complex multifactorial model that included: genetics, environmental, psychosocial and cultural factors.

Supervisor: A/Professor J de Vries (Medicine)
Co-supervisor: Dr M Campbell (Psychiatry and Mental Health)

Nchangwi Syntia Munung
Thesis Title: *Developing a principles-based framework to link the governance of genomics research and biobanking in Africa to global health justice*

Nchangwi Munung holds a BSc and an MSc in Biochemistry from the University of Buea. She also holds an MSc Med in Medicine from the University of Cape Town.

Nchangwi Munung's thesis is concerned with how the ideals of global health equity and justice could be advanced in genomics research and biobanking in Africa. Drawing on: Larry Gostin's global governance of health; Jennifer Ruger's shared health governance; and the African moral theory of Ubuntu, Nchangwi developed and tested a framework for the governance of genomics research and biobanking in Africa. The framework's principles and recommendations are broadly supported by different stakeholder groups in genomics research and biobanking. Whilst the framework was developed to support the governance of genomics research in Africa, its principles will also be applicable to other global health research programs in Africa.

Supervisor: A/Professor J de Vries (Medicine)
Co-supervisor: Dr B Pratt (Nossal Institute for Global Health, University of Melbourne)

Philip John Smith
Thesis Title: *Behavioural economics: the missing ingredient that makes sexual health services responsive and acceptable to young South Africans*

Philip Smith is a behavioural scientist and holds a BSocSc and an MSocSc from UCT and a BAHons from the University of the Western Cape. He joined the Desmond Tutu HIV Centre, Department of Medicine in 2013 and his doctoral research was conducted at sites around Cape Town.

Philip Smith's thesis explores tailored HIV sexual health services for underserved South Africans, with specific focus on young men and women who live in high HIV disease burden, under-resourced communities. His investigation sought to understand why young people continue to avoid sexual health services and what qualities would be desirable in these services. The research explored a behavioural economics approach to adolescent health-seeking behaviour. Young people who participated in the research wanted trust-building relationships with healthcare staff, services that are tailored to their needs and challenges, and convenience. Guided by behavioural economics, he applied the youth recommendations in three types of services; HIV diagnostic, HIV prevention and a service delivery platform. His findings suggest that adolescent responsive sexual health services are highly desirable interventions. Youth tailored services, guided by behavioural economics, should be implemented in a multipronged approach to significantly impact the sexual health outcomes of South African youth.

Supervisor: Professor L-G Bekker (Medicine)

In Neuroscience (Surgery):
Stevie Crystal Biffen
Thesis Title: *Differences in callosal and subcortical volumes and associated neurobehavioural deficits in children with prenatal alcohol exposure*

Stevie Biffen completed her BSc and BSc(Hons) degrees at UCT, her BA(Hons) degree at the University of the Western Cape and is a registered counsellor with the HPCSA. She began her MSc in 2014 and upgraded to a PhD in 2016.

Stevie Biffen's thesis focuses on the effects of prenatal alcohol exposure (PAE) on the brain. It investigated subsequent behavioural deficits associated with neuroanatomical volume reduction. She measured the corpus callosum (CC), hippocampus, caudate nuclei and nucleus accumbens on structural magnetic resonance images of children aged 9-11 yrs. This was done using manual tracing and repeated with an automated segmentation program, FreeSurfer. A comparison between the two methods showed that the latest version of FreeSurfer performed similarly to manual tracing. This confirms that computer-based automated methods may be as accurate as a trained neuroanatomist. Clinically, she found that increased daily intake and frequency of alcohol consumption is associated with smaller CC, hippocampi and caudate nuclei size. She also showed that children with fetal alcohol syndrome show deficits in inter-hemispheric transfer and decreased CC size was related to poorer transfer between brain hemispheres and partially mediated the negative effects of prenatal alcohol exposure on IQ.

Supervisor: Professor EM Meintjes (Human Biology)
Co-supervisor: Dr CD Warton (Human Biology)

Berendina Egbertine Veerbeek
Thesis Title: *Functioning, disability, health and quality of life in adults with cerebral palsy more than 25 years after selective dorsal rhizotomy*

Berendina Veerbeek has a BSc in Physiotherapy and an MSc in Health Sciences from Vrije Universiteit, Amsterdam. She joined UCT in 2015 to study Human immunodeficiency virus (HIV) encephalopathy and continued with her PhD studies afterwards.

Berendina Veerbeek's thesis examines adults with cerebral palsy (CP) who underwent selective dorsal rhizotomy (SDR) in childhood, and the challenges these adults face while aging. SDR is a non-reversible procedure to address spasticity in lower extremities of children with CP. This procedure was refined and reintroduced by clinicians at the Red Cross Children's Hospital in the early 1980's and is currently the most widely used procedure worldwide. Many studies on the short-term outcomes of SDR show positive results for physical status and daily activities. Studies with a long-term follow-up of minimal five years are limited. Berendina Veerbeek demonstrated positive and stable outcomes of SDR more than 25 years after surgery in studies on: (1) physical status, quality of life and level of anxiety and depression; (2) gait; (3) spinal deformities and pain; and (4) daily activities, participation and functional mobility. These results can assist parents, caregivers and clinicians in making decisions about the most effective treatment option.

Supervisor: Dr NG Langerak (Surgery)
Co-supervisors: Professor RP Lamberts (Human Biology); Professor AG Fieggen (Surgery)

In Nutrition:
*Gabriela Cormick
Thesis Title: *The effect of calcium intake on body weight in pregnant women from South Africa, Zimbabwe and Argentina participating in the calcium and pre-eclampsia trial*

Gabriela Cormick holds a BSc in Nutrition from the National University of Buenos Aires, Argentina and MSc degrees in Public Health and Information Technology from the University of Glasgow, United Kingdom. She specialised in evidence-based health research and works at the National Council of Scientific and Technical Investigations, Argentina.

Gabriela Cormick's thesis focuses on the role of calcium supplementation in body weight and evaluates the weight and dietary intake of pregnant women. In the study young adult women from South Africa, Zimbabwe and Argentina took calcium supplements or a placebo before they become pregnant and during pregnancy, and the effect on their weight was determined. These results were then combined with sixteen similar studies on non-pregnant adults. The overall findings show that calcium supplementation reduces body weight in adults. The thesis also shows a high percentage of women who may become pregnant, are overweight or obese and have a poor dietary intake with low intake of vitamins and minerals. There is a need to improve the weight and dietary intake of young women in South Africa and Zimbabwe and to further investigate the effect of calcium supplements before and during pregnancy for reducing unwanted weight gain.

Supervisor: Dr J Harbron (Human Biology)
Co-supervisors: Dr AP Betrán (World Health Organization WHO, Health and Research); Dr JM Belizan (World Health Organization WHO, Reproductive Health Sciences)

In Paediatrics:
Leah Nyawira Githinji
Thesis Title: *Lung function in perinatally HIV-infected adolescents on antiretroviral therapy in Cape Town, South Africa*

Leah Githinji, MBChB, MMed (Paediatrics and Child Health), University of Nairobi, Kenya, joined the Department of Paediatrics and Child Health at UCT in 2012 for sub-speciality training in Paediatric Pulmonology and in 2015 for her PhD. Before joining UCT, she worked as a paediatrician in regional hospitals in Kenya.

Leah Githinji's thesis focuses on the spectrum, progression and determinants of lung function in HIV-infected adolescents on highly active antiretroviral therapy (HAART) in South Africa. This prospective cohort study found that HIV-infected adolescents had lower lung function which tracked over two-years compared to matched HIV-uninfected participants. Prior pulmonary tuberculosis or severe lower respiratory tract infection were predictors of low lung function. The rate of tuberculosis disease was substantially higher in HIV-infected than uninfected adolescents over the 2-year period. This study shows persistent impairments in lung function despite well-controlled HIV and long-term use of HAART and highlights the risk of prior respiratory disease in affecting lung health.

Supervisor: Professor HJ Zar (Paediatrics and Child Health)
Co-supervisor: A/Professor DM Gray (Paediatrics and Child Health)

In Public Health:
Kirsty Jane Brittain
Thesis Title: *Disclosure of HIV status among HIV-infected pregnant and postpartum women in Cape Town, South Africa*

Kirsty Brittain holds a BSocSc degree from the University of KwaZulu-Natal and an MPH in Epidemiology and Biostatistics from UCT. Her doctoral research emerged as a result of her interest in the psychosocial aspects of maternal health in the context of HIV.

Kirsty Brittain's thesis investigates HIV-infected women's disclosure of their HIV status to male partners and family and community members. Using data collected in Gugulethu, Cape Town, she describes patterns and predictors of disclosure during pregnancy and the postpartum period. She shows that women's social and economic circumstances are central to understandings of disclosure. Despite the widely-held belief that disclosure is beneficial, her thesis provides evidence that the effects of disclosure

on depression and HIV treatment outcomes are contextual rather than universal. Key factors that appear to modify these associations include timing of HIV diagnosis, relationship status, and unintended pregnancy. In addition, she shows that an unintended pregnancy has long-lasting negative effects on women's mental health and HIV treatment outcomes in this setting. These findings have important implications for counselling practice as part of antenatal and HIV care and suggest that counselling messaging should be tailored to individual women's circumstances.

Supervisor: Professor L Myer (Public Health and Family Medicine)

*Nicola Foster
Thesis Title: *Structure and agency in the economics of public policy for TB control*

Nicola Foster holds an undergraduate degree in Pharmacy from the Nelson Mandela Metropolitan University, and a master's degree in Public Health with a specialisation in Health Economics. She joined the Health Economics Unit at UCT in 2012 to start her PhD.

Nicola Foster's thesis focuses on the interactions between structure and agency relationships in the health system as related to the diagnosis of tuberculosis (TB). She conducted a longitudinal study of the costs incurred by patients when investigated for, diagnosed with, and started on TB treatment. She then developed a mathematical model to estimate the cost-effectiveness from the societal perspective, of health systems investment to support TB diagnosis in South Africa. She found that beyond the investment in technology, that health systems investments to support implementation would be cost-effective even against highly conservative thresholds. The modelling framework used allows for nuanced recommendations to sub-national policy makers.

Supervisor: A/Professor S Cleary (Public Health and Family Medicine)
Co-supervisors: A/Professor E Sinanovic (Public Health and Family Medicine); Professor A Vassall (London School of Hygiene & Tropical Medicine, Global Health)

Hussein Hassan Mwanga
Thesis Title: *Risk factors for work-related asthma in health workers with exposure to diverse cleaning agents in two African health care settings*

Hussein Mwanga holds a medical degree from the University of Dar es Salaam and an MMed in Occupational Medicine from UCT. His PhD emanated from research activities in occupational allergy and asthma among health workers in the Occupational Medicine Division, School of Public Health and Family Medicine at UCT.

The increasing number of health workers with work-related asthma and skin complaints presenting at Groote Schuur Hospital, initiated an investigation into the risk factors for work-related asthma in health workers exposed to cleaning agents in two hospitals in South Africa and Tanzania. The study demonstrates that asthma and work-related symptoms are common and cleaning agents have replaced latex as an important cause of work-related asthma in health care settings. Hussein Mwanga's thesis provides evidence that specific cleaning agents used in medical instrument cleaning/disinfection and sprays used for fixed surface cleaning are important risk factors for asthma. A dose-response relationship was evident for work-related ocular-nasal symptoms and medical instrument cleaning agents and tasks. The novel contributions of this research entail the detailed exposure assessment to aldehydes, immunological assessment of sensitisation to ortho-phthlaldehyde and chlorhexidine, as well as the use of allergic airway inflammatory markers and bronchial hyperresponsiveness to characterise asthma phenotypes.

Supervisor: Professor MF Jeebhay (Public Health and Family Medicine)
Co-supervisor: Dr R Baatjies (Environmental and Occupational Studies, Faculty of Applied Sciences, Cape Peninsula University of Technology and Public Health and Family Medicine, University of Cape Town)

Bey-Marrie Schmidt
Thesis Title: *The factors affecting a data harmonisation innovation in the Western Cape, South Africa*

Bey-Marrié Schmidt holds a BSocSc(Hons) and MPH from UCT. She began her PhD studies at in 2015.

Bey-Marrié Schmidt's thesis reports on how the design, implementation and institutionalisation of data harmonisation (DH) innovations in South Africa are affected by a wide range of social, institutional and technical factors. She conducted a historical analysis of health information system innovations in South Africa and identified key lessons related to stakeholder engagement, resistant actors, and the role of change agents, institutional and financial factors. Through a scoping review she identified common characteristics of DH innovations related to the processes, activities, databases, institutions, and stakeholders involved. Finally, she gained new insights into the motivations and opportunities, design processes, and institutional and conceptual dilemmas of innovative DH processes that were unfolding in practice, as well as key strategies for navigating emerging challenges. These findings provide a more comprehensive understanding of the factors that impact on designing, implementing, and evaluating DH innovations, which can inform efforts to optimise outcomes of future DH innovations.

Supervisor: A/Professor CJ Colvin (Public Health and Family Medicine)
Co-supervisor: Dr N Leon (South African Medical Research Council)

In Speech-Language Pathology:
Kristen Abrahams
Thesis Title: *A case study of emerging practice in speech-language therapy in a community practice context*

Kristen Abrahams is a Speech-Language Therapist who holds a BSc and MSc in Speech-Language Pathology from the University of Cape Town.

Kristen Abrahams' thesis is a case study of an emerging professional practice in speech-language therapy (SLT) located in a university-school partnership initiative. The study seeks to understand how SLT professional practice is emerging in a community setting. She uses critical theory, reflexive interpretation and decoloniality as lenses to document and analyse the emerging professional practice. Using narrative, collages and paintings, she explores the journey of fourth SLT students as they navigated through the discomfort of an unfamiliar practice while they completed their community clinical education placement. The findings indicate that context, knowledge and curriculum supports are key elements which facilitate learning to discover new ways of thinking, doing and being a speech-language therapist. The importance of dialogue emerged as a critical form of engagement. Specifically, the concept of critical dialoguing is discussed as a crucial process when engaging with changing professional practices.

Supervisor: Professor H Kathard (Health Sciences Education)
Co-supervisors: A/Professor M Pillay (University of KwaZulu-Natal, School of Health Sciences); Dr M Harty (Health and Rehabilitation Sciences)

FACULTIES OF ENGINEERING & THE BUILT ENVIRONMENT AND SCIENCE

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 University Book Award to Alphose Zingoni.

The Master of Ceremonies will present the University Creative Works Award to Clint Abrahams.

The Master of Ceremonies will present the Distinguished Teacher Award to
Jeffrey Murugan and Anneliese Schauerte.

The Master of Ceremonies will present Genevieve Langdon 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.)

DISTINCTIONS IN THE FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

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.

DISTINCTIONS IN THE FACULTY OF SCIENCE

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.

THE UNIVERSITY BOOK AWARD

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);	*Sound from the Thinking Strings*
	S Watson (Arts); J Parkington (Arts) and N Penn (Arts)	
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*

THE UNIVERSITY BOOK AWARD (CONTINUED)

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*
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 Nattrass (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)	*The Archive of Willem Bleek & Lucy Lloyd*
	N Penn (Humanities)	*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 Nattrass (Commerce)	*The AIDS Conspiracy: Science Fights Back*
2015	S Shaikh (Humanities)	*Sufi Narratives of Intimacy*
2016	L Modisane (Humanities)	*South Africa's Renegade Reels:* *The Making and Public Lives of Black-Centred Films*
2017	D Chidester (Humanities)	*Empire of Religion: Imperialism and Comparative Religion*
2018	D Wardle (Humanities)	*Suetonius: Life of Augustus*

THE UNIVERSITY BOOK AWARD (CONTINUED)

The book award for 2019 is to be awarded to:

Shell Structures in Civil and Mechanical Engineering:
Theory and Analysis by Alphose Zingoni

Professor of Structural Engineering and Mechanics, Department of Civil Engineering, University of Cape Town

In his opening remarks in a review of this book for the Institution of Structural Engineers (London), Professor Tim Ibell (Fellow of the Royal Academy of Engineering, and Past President of the Institution of Structural Engineers) says "It has been such a pleasure to read this book. Shell structures have so much to offer our profession, and this book demonstrates their extraordinary scope of application. It leads the reader rather beautifully through the increasing complexity of applications of shell structures, providing full derivations throughout to problems of real practical importance." Shell structures find application in many fields of engineering, notably civil, mechanical, marine and aeronautical disciplines. They are encountered in the form of iconic roofs like the Sydney Opera House in Australia, large hyperbolic cooling towers at power stations, fuel-storage steel tanks at petroleum refineries, elevated water tanks in urban areas, boilers and pressure vessels, car bodies, submarine hulls, aircraft fuselages and spacecraft shells.

Since about the beginning of the 20th century, considerable effort has been expended on the development of rigorous theories – both general and specialist – to describe the behaviour of shells as realistically as possible. In the preface of his book, Zingoni points out that the problem with such rigorous formulations is that, in almost all cases, they lead to sets of differential equations for which exact mathematical solutions cannot be found, or for which the mathematical solutions that are obtained are not very practical from an engineering point of view. On the other hand, numerical methods can provide practical approximate solutions for such situations. However, he argues, they are not necessarily the most effective for purposes of studying the effect of varying a given single parameter during the course of design. Closed-form solutions are much more suited to analytical study, provided they can be found. Unfortunately, they are not easy to find.

In writing this book, Zingoni, a world-recognised authority on the subject of shell structures, has employed a unique strategy that allows closed-form analytical solutions to be successfully obtained for a wide range of practical shell problems. These closed-form solutions are highly suitable for practical calculations; they permit the designer to rapidly evaluate stresses in a given shell structure, or to gain important design insights by simply examining the form of the mathematical expressions, or to obtain a deeper understanding of the effect of varying the design parameters of the shell. It is this powerful approach that sets the book apart from all other existing books. In the words of reviewers, "the result is an extraordinary work that stands out above other books on the subject". Since publication, the book has garnered highly laudatory reviews from both academia and industry. It enjoys a diverse readership (postgraduate students, academics and practitioners) that is distributed across many countries around the world, including South Africa. Engineers have consulted the book in designing novel shell structures.

CREATIVE WORKS AWARD

Design-build exhibition: *Macassar "Who we are"*

Mr Clint Abrahams

Clint Abrahams is an architect and emergent academic at the School of Architecture, Planning & Geomatics. He is the founder of *Studiolight*, a non-profit through which mutually beneficial relationships between communities and higher learning institutions are explored for the emergence of socio-spatial restorative architecture. Abrahams' *Studiolight* exhibition entitled *Macassar "Who we are"* explores the re-authoring of socio-spatial narratives and how these can critically engage the postcolonial challenges of displaced communities in South Africa. It counters dominant stigmatic narratives by re-telling the stories of Macassar, a community blighted by crime and other socio-economic challenges to build community resilience amidst conditions of hopelessness and public mistrust.

In 2016, with no civic-institutional support, meetings held in Macassar living rooms and backyards developed into a street photography project involving youth from the area. This built new relationships, trust, and appreciation for their community, framing a new story for the area. Using found objects to curate the photographic material, a nomadic spatial practice emerged to sustain the project. In 2018, community meetings were held to plan the hosting of an exhibition in the public library and two private homes. The installations were built as participatory spatial interventions which resulted in shared (common) spaces for intergenerational dialogue. Stories by elders in response to images taken by the youth were included in the exhibition to instil new stories of hope and dignity.

This intersection of altered perceptions and innovative spatial practice is imperative for thinking through interdisciplinary ways for different forms of practising architecture to emerge. Practices that can allow us to imagine shared spaces that can disrupt the narratives of apartheid legacies which plague our displaced communities. This is the project's biggest contribution and has resulted in the planning of a shared space to allow the work to find permanence in the community. This year the refurbishment of a community space, a collaboration between the Studiolight, the community and four universities is a testimony to the relevance of Macassar's story of resilience, that change comes from within. A change that echoes in youth participant Elcardo Samuels' quote as he describes the impact the two-year project has had on its participants and the immediate community of Macassar.

"From a distance, one's sees the struggle. Once you are near it is what is close that moves and inspires"

Other Studiolight youth participants are Charlton Abrahams, Elton Abrahams, Giovanni Alexander, Stephanie Alexander. They were assisted by John Coetzee, Shafiek Matthews along with Bachelor of Architectural Studies students, Chinenye Chukukwa, Christine Ho, Kayleigh Jonkers, Nchima Kamwendo, Phimzile Konile, Charlotte Mabatha, Mxolisi Moyo, Biyelwu Xiphu. Cedric Hendricks assisted with conducting interviews.

DISTINGUISHED TEACHER AWARD

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 Mathematics)
2002	A Buffler (Physics)
	S Oldfield (Environmental & Geographical Science)
2003	D Gammon (Chemistry)
2004	B Davidowitz (ADP in CHED & Chemistry)
2006	R Ackermann (Archaeology)
2008	J O'Riain (Zoology)
2011	G Smith (Chemistry)
2012	Z Woodman (Molecular & Cell Biology)
2014	J Gain (Computer Science) S Wheaton (Physics)
2015	A West (Biological Sciences)
2016	D Erwin (Mathematics & Applied Mathematics) M Lacerda (Statistical Sciences) J Shock (Mathematics & Applied Mathematics)
2018	G Leigh (Physics)

The following members of the Faculty of Science have been chosen for this award in 2019:

Associate Professor Jeffrey Murugan
Mathematics and Applied Mathematics

Associate Professor Murugan teaches in the complex field of applied mathematics, quantum gravity and string theory. He is renowned for his innovative approach to teaching, from producing podcasts of his lectures years before audio and video recording of lectures became part of the scaffolding of student learning, to taking his students on walks around campus looking at the shape of spiders' webs. His approach does more than prepare students for successful careers in a range of disciplines; in his words, he aims to imbibe in all his students a sense of wonder for the world around them by making mathematics an experiential subject.

Knowledgeable and witty, yet acutely aware of the difficulties experienced by students in his classes, he has also made diversity a priority in his teaching and supervision programs. He has tested the use of different languages in the classroom and lecture recordings, initiating a year-long study into how students would perform in courses where lectures were recorded and subtitled into one or more of the indigenous South African languages, and has been a constant innovator in the production of online learning environments.

DISTINGUISHED TEACHER AWARD (CONTINUED)

His inspirational influence on his students extends from first year classes through to postgraduate research groups. An undergraduate writes that Murugan "knows the material well enough to spark an interest in everyone making every lecture feel like an adventure." He has also had a significant impact on senior postgraduate students, cultivating groups of master's and PhD students to develop them into strong, independent researchers. Several students he has supervised now teach and research at institutions nationally and abroad.

Murugan's passion and easy-going rapport with students complements his desire to bring the scientific world to heterogeneous groups of young people. This is underscored in his own words when he states: "Increasing diversity in the sciences, especially in mathematics and physics, can only be a good thing. We have to understand that it is something that absolutely needs to happen if we are ever to convince society that science is an essentially human endeavour that belongs to everyone."

Dr Annelise Schauerte

Mathematics and Applied Mathematics

Independently nominated by her 3rd year students, Dr Anneliese Schauerte, a member of the Mathematics and Applied Mathematics Department since 1992, has taught almost every major mathematics course in the department at all levels from first year undergraduate to honours.

Although equally adept at teaching large and small classes, Dr Schauerte is arguably most valued for her contribution to large undergraduate Mathematics courses, which require the management of large teams of lecturers and tutors, and the teaching of several hundred students. Impeccable administration, thoughtful innovation and a strong commitment to the academic development of her students has seen her turn "problem courses" into success stories.

Dr Schauerte has a rare talent for presenting difficult content in a clear and logical way, while still conveying the plot line and narrative. With infectious enthusiasm and a friendly, caring manner, she guides her charges through complicated material, using examples and illustrations wherever appropriate to masterfully connect the abstract to the concrete. Level-appropriate student support is provided: a great deal in first year, tapering gradually, so that by 3rd year students are expected to exercise independent judgement. Students consistently laud the heavy homework load in her courses and her use of continuous and creative assessment as contributing to deep learning.

In the words of a long-time colleague, "her lectures verge on the immaculate and her preparation is deep and thoughtful, but the results are illuminating and entertaining", while another points out that "Dr Schauerte's teaching demonstrates a rare combination of a natural gift for teaching, commitment to all facets of teaching at a tertiary institution, … constant adaptation and innovation …, fair but challenging assessments, … and a desire to help all students to fulfill their mathematical potential."

According to one of her third year students, "she believed in me when I was struggling to do so, and through the personal attention that she gave each student in her module, she not only gave me the confidence to keep pushing, but helped me develop my logical thinking to the point where I was able to get over 80% for her module"

FELLOWSHIP

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
2019:	A Mainza

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

Professor Genevieve Sarah Langdon
Mechanical Engineering

Professor Langdon has made her mark in the field of impact engineering by focusing on the blast resistance of explosively loaded structures and materials. Most work on explosively loaded structures is limited to small numbers of expensive field tests on overly complex structures or rely on substitute loading types (such as air pressure) which cannot accurately recreate the conditions of a chemical explosion. In other cases, the work is classified by the military and seeks to answer a very specific threat. Professor Langdon's work seeks to understand the fundamental mechanisms driving response so that all structures can be better designed or protected from explosion scenarios (such as rapid de- pressurisation of an aircraft, terrorist bomb attack, and landmine detonation or military incursions).

Professor Langdon has been involved in developing and evaluating blast resistant materials and structures for use in transportation, defence and structural applications. She seeks to make the world a safer place through improved understanding of structural and material response under explosion loading. Her work has focused on understanding the mechanisms involved in the response of lightweight materials, composites, aerospace metals and armour steels, to improve their design and to inform the materials selection process. She has shown that, because of the wide range of explosion threats and type of protection required, several different solutions must be developed to improve protection. She has also mapped the failure processes in lightweight materials subjected to blast loading. This work impacts the transport, defence and structural engineering sectors of the industrial economy.

FELLOWSHIP (CONTINUED)

Professor Langdon has recently expanded the impact of her work into the reduction of blast-related injuries, specifically those caused by explosive remnants of war. She was one of the founding partners who launched the first African blast injury network, involving a multi-disciplinary network of researchers examining blast injuries. Given the massive landmine legacy across the world and particularly in Africa, the impact of this work will prove to be substantial in reducing civilian injuries and loss of life due to explosive remnants of war.

Professor Langdon is recognised as the leading researcher in the field of blast response of lightweight structures and materials. She is currently the Director of the Blast Impact and Survivability Research Unit (an accredited Centre of UCT) in the Department of Mechanical Engineering. She is also recognised as the leading engineering researcher on the blast performance of lightweight structures and materials in South Africa. She is involved in extensive international collaborative research because of her expertise in structural blast response and blast experimentation. There are very few researchers in the world that have expertise in both blast experimentation and lightweight structures, putting Professor Langdon in a unique position to have knowledge that is recognised internationally in both areas of research.

Her work is published in the top journals in her field; she is an editorial board member for two international Elsevier journals, one on structures and the other on impact engineering. She is also the Secretary of the International Society of Impact Engineering and a regular invited speaker at international research conferences. The contribution makes her a worthy candidate to be admitted as a Fellow of the University of Cape Town.

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 E Lewis

POSTGRADUATE DIPLOMA IN PROJECT MANAGEMENT

*Engela Elizabeth Cooper
*Nicole Harris
*Mark Christopher Jackson
*Priscilla Thembakazi Moya
Polite Munyaradzi Nduru
Hanro Peter Rousseau
*Johan Charl Senekal
*Sanchia Jessica Van Staden
*Wynand Wessels

POSTGRADUATE DIPLOMA IN PROPERTY STUDIES

*Byron Charles Eckersley

DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES

Franko Thomas Barends
Nkosinathi Dlamini
Luis Kess Quessongo

DEGREE OF BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES

Joshua Jack
Jenaide Witten

DEGREE OF BACHELOR OF SCIENCE IN PROPERTY STUDIES

Aysha Pia Alexander
Evan Frylinck
Khanyo Templeton Ngcukana
Tallon Dane Robertson
Joel Clive Smith
Jenna Stow
Robert James Tweddle
Ivan Friedrich Van Der Merwe

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN CHEMICAL ENGINEERING

Siyabulela Anda Lizo Majikija
Thabo Malatji
*Motloheloa Patrick Mokhethi (with honours)
Tawanda Mutataguta
*Donovan Paine (with honours)
*Dillon Diego Pillay
Katlego Mpho Sejanamane

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN CIVIL ENGINEERING

Dharmesh Dookhit
*Joshua Elliott Goddard
*Luke Linnegar
Nacera Mwenga Luboya
*Boitumelo Mokonyane
Gailian Naicker
Jared Elisha Naidoo
Nikyle Samlall
Seabelo Mogale Seroalo
Rabelani Wendy Tshikhovhokhovho
Siyanda Tyobeka
Farai Justin Zimbizi

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN ELECTRICAL AND COMPUTER ENGINEERING

David Joshua Fransch
*Lebohang Michael Mbele
Tafadzwa Dewah Moyo
Mick Reuben Perring

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN ELECTRICAL ENGINEERING

Felemane Felemane
Keenan Kyle Hector
Tawanda Ignatius Maseva
Jabulani Richard Masimula
Skhumbuzo James Matine
Thambo Wandile Nondabula
Nizamuddien Rumaney
Kwezi Malusi Ziqubu

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN MECHANICAL AND MECHATRONIC ENGINEERING

Yolanda Dolly Nxumalo

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN MECHANICAL ENGINEERING

Tristan Alun George
*Themba Makamu
Chad Frank Newel
Kaashif Wilkie

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING IN MECHATRONICS

Murray James Buchanan
Wasiela Harris
*Ahryish Jagganath
*Chia-Hui Kao
Zanele Ntombenhle Kubheka
Imraan Mohamed
Tinashe Edson Junior Mushede
Andrew Nicol Scott
Mokgadi Setshekgamollo
Sajjaad Sherif
Richard William Symmonds

2. FACULTY OF SCIENCE

Dean: Professor M F Ramutsindela

BACHELOR OF SCIENCE

Mulisa Badugela
Roxanne Sarah Christian
Dean Arno Erasmus
Yongama Giwu
Awande Snenhlanhla Gumbi
Yi-Ting Ho
*Sabelo God's-Love Thobani Khanyile
Benjamin Kilpin
Malefeu Mamedupi Lethuba

Noluthando Andiswa Magubane
Dimpho Mangena
Mathobela Mapoulo
Steven Derek Mare
Busisiwe Nozipho Mbewe
*Arno Henry Mostert
Thabisile Siphosethu Msibi
*Tawanda Andrew Muhwati
Jessica Ruth Muller
Pfarelo Patty Muthevhuli
Gemma Jo Nel
*Sasha-Leigh Paules
Tsepo Stephen Ramaisa
Dimakatso Reneilwe Rapotu
Ryan Reddy
*Dominique Theresa Rosslee
Faheem Seedat
Tshepiso Witness Sekepere
Professor Shabangu
George Nkhosikhona Mkhulisi Tembe
Catherine Emma Vowles
*Maxine Juliet Wilcox
*Fadzai Karen Zimbwa

DEGREE OF BACHELOR OF SCIENCE (HONOURS)

In Mathematics:
*Wynand Louw Kok

3. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor A E Lewis

DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES (HONOURS)

*Katendi Kamuhuza

DEGREE OF BACHELOR OF CITY PLANNING (HONOURS)

Danielle Grace Hill

DEGREE OF BACHELOR OF LANDSCAPE ARCHITECTURE (HONOURS)

Oarabile Adolphias Chingapane
Sandra Zaroufis

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

Abdallah Moos
*Sethabile Nokukhanya Ngcobo
Thabo Daniel Nhlapo

DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN NUCLEAR POWER

Julian Glenn

DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN PROPERTY STUDIES

*Mariam Omar

DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN QUANTITY SURVEYING

Jean-Marie Yannick Delaire
*Asnath Amandus Kessy
Thareefa Mahed
*Gloria Mande Mwidya
*Sajjaad Ahmad Naimi
*Linda Lumbidzani Ndebele
*Nyasha Lee-Anne Nyandoro
Fabio Alessandro Ugo Saporetti

DEGREE OF MASTER OF ENGINEERING

In Civil Infrastructure Management and Maintenance:
*Clyde Lleland Dankers

In Nuclear Power:
*Zieyaad Isaacs
*Japhet Mkhipheni Ali Ntuli

In Radar & Electrical Defence:
Kevin Gema (with distinction in the coursework component)

In Telecommunications:
Mbongeni Bhebhe
Mutsawashe Gahadza
*Mfanufikile Ncube

In Transport Studies:
Wilberforce Wanjau Chege
Ntombifuthi Ngobeni

In Water Quality Engineering:
*Pierre Willem Fourie
*Sarel Wilke Morrison (with distinction in the dissertation)
*Angelos Yiannou (with distinction in the coursework component)

DEGREE OF MASTER OF GEOTECHNICAL ENGINEERING

Sam Bbira

DEGREE OF MASTER OF LANDSCAPE ARCHITECTURE

Mark Patrick Mac Hattie

DEGREE OF MASTER OF SCIENCE IN PROJECT MANAGEMENT

Deidre Michelle Adams
Able Benson Lungu
Molati Albert Nonyane

DEGREE OF MASTER OF SCIENCE IN PROPERTY STUDIES

De Villiers Brits
*Pierre Ernest Cronje
*Luse Mercy Katanekwa

DEGREE OF MASTER OF TRANSPORT STUDIES

Herbert Chirwa
Phillipus Stephanus Erasmus (with distinction)
Charlotte Wright

DEGREE OF MASTER OF PHILOSOPHY

In Chemical Engineering:
*Corey Greg Beavon (with distinction in the dissertation)

In Civil Engineering:
Mikhail Manuel (with distinction in the dissertation)

In Conservation of the Built Environment:
Tshimangadzo Israel Nemaheni
Thifuniwi Victor Netshiavha
*Wendy Murray Wilson (with distinction in the coursework component)

In Construction Economics & Management:
Christiana Okobi Ekpo (with distinction in the dissertation)
Amanda Alicia Mtya

In Energy Development Studies:
*Timothy Oliver Mew (with distinction in the coursework component)
Khothatso Mokhele

In Space Studies:
*Victoria Anne Campbell (with distinction in the dissertation)
*Alexander Gairiseb
Tivere Hugbo
*Christoffel Johannes Kotze (with distinction in the dissertation)
*David Joseph Lindgren (with distinction)
*Deneys Sean Maartens
*Bas Martens (with distinction)
Adebayo Olutumbi Ogunyinka
Barbara Apili Ojur
*Annelie Vermeulen (with distinction in the dissertation with distinction in the coursework component)

In Sustainable Mineral Resource Development:
Lesley Kudakwashe Sibanda (with distinction in the coursework component)
*Lewis Elijah Tumbama

In Transport Studies:
Robert James Cameron
Bridget Thandekile Duze
*Erwin Kamundu
*Chika Mavuna

In Urban Infrastructure, Design & Management:
Annelien Basson
*Kayleen Jeanne Cooke
David Duke (with distinction in the coursework component)
*Martin Kluger (with distinction in the dissertation)
Linekela Elias Nambinga

DEGREE OF MASTER OF SCIENCE IN ENGINEERING

In Chemical Engineering:
*Benita Jean Aspeling
Blessing Hellen Chirume (with distinction in the dissertation)
Natasha Davids
Dominic Kyle De Oliveira (with distinction in the dissertation)
Mathew Dzingai
Jonathan Nicholas Gertzen (with distinction)
So-Mang Kim (with distinction in the dissertation)
Dawid Daniël Kruger (with distinction in the coursework component)
Donald Mjonono (with distinction in the coursework component)
Mohamed Hassan Moydien
Brigette Mariana Nagel (with distinction)
Hebert Simbarashe Nyakunuhwa (with distinction)
Zaynab Sadan (with distinction in the dissertation)

In Civil Engineering:
*Andrew Hilton Goodhead
Alice Lindiwe Harvey (with distinction in the dissertation)
Nicholas Richard Jarratt (with distinction in the dissertation)
*Elzane Laabmayr (with distinction in the coursework component)
*Suzanne Elaine Lambert (with distinction in the dissertation)
Seamus Jay Levin
Stephane Simon Ma-Kiese Masamba
Amy Jennifer Moore (with distinction in the coursework component)
Adam Mosam (with distinction)
Pranava Naidoo (with distinction in the dissertation)
Joanitta Nabadda Ndawula
*Dietmar Eckart Niebuhr (with distinction in the dissertation)

In Civil Infrastructure Management & Maintenance:
Alpheus Musondwa Itumeleng Shabangu (with distinction)
*Luba Jean-Pierre Thako

In Electrical Engineering:
Kingsley Oladipo Akpeji
David Stephen Berliner (with distinction in the dissertation)
Alexander Francois Blom (with distinction in the dissertation)
Kossivi Agbessi Fangbemi
*Ming Gao
*Jatin Harribhai
*Keagan Andrew Jarvis
Jiamo Liu (with distinction)
Moeketsi Mafereka
Micheal Thatohatsi Malape
Lusani Mamushiane (with distinction in the dissertation)
Mogamat Noer Martin
Michael Benno Mesarcik (with distinction)
Samuel Seemole Mponwana
*Sitwala Mundia (with distinction in the dissertation)
*Arnold Farai Sagonda
Lindani Prince Shelembe (with distinction in the dissertation)
Naadir Mohamed Vorajee
*Paul James Wambi
Ryan Evan Wolf (with distinction in the dissertation)

In Geotechnical Engineering:
Sanelisiwe Nonhlanhla Precious Buthelezi (with distinction in the coursework component)
Monica Lineo Damane (with distinction)
*Prospect Kudakwashe Motsi
Charles Sikwanda (with distinction in the dissertation)

In Materials Engineering:
*Marie Mellisa Sandy Mariaye
*Hiranya Michaela Naicker

In Mechanical Engineering:
John Shaun Clark (with distinction in the dissertation)
Abraar Mohammed Hasan Harnekar (with distinction in the dissertation)
Shaun Kriek (with distinction)
*Yashveer Maharajh (with distinction in the coursework component)
*Alton Cadle Marx (with distinction in the dissertation)
Nyasha Nigel Mawire (with distinction in the dissertation)
Christa Nsanzinteko Nsanzubuhoro
John Ogundiran (with distinction in the dissertation)

Siqiniseko Colin Richmond (with distinction in the dissertation)
*Braden Sydney Clive Van Breda
Nkosilathi Vundla (with distinction in the coursework component)

In Radar & Electronic Defence:
Asif Ahmed Parker (with distinction in the coursework component)
Jean Reynault Swart (with distinction)

In Structural Engineering and Structural Materials:
*Marina Kamper (with distinction)

In Sustainable Energy Engineering:
*Anna Magdalena Nagel

In Water Quality Engineering:
Tinashe Lebone Chipako (with distinction)
Mohamedjaffer Naushadhussein Gulamhussein (with distinction in the coursework component)

4. FACULTY OF SCIENCE

Dean: Professor M F Ramutsindela

DEGREE OF MASTER OF PHILOSOPHY

In Climate Change & Development:
Kristian Gerhardt Holtzhausen Gerstner
Lucy Lavirotte
Meagen Courtney Swain

In Environmental & Geographical Science:
Kelly Celeste Webster

In Environment, Society & Sustainability:
Robin Peter George
*Ivanna Katz (with distinction)
Elena Lotte Van Doorn

In Information Technology:
Stefan Drue
Michael Graaf
*James Duncan Shelton
Catharina Maria Till

DEGREE OF MASTER OF SCIENCE

In Advanced Analytics:
Nicholas John Murphy (with distinction)
*Adriaan Izak Rowan
Anri Smith
*Barry Jan Strydom Van Zyl

In Applied Mathematics:
*Mariam Campbell (with distinction)
Kirtika Juhi Hurgobin
*Thando Nkomozake
Ruach Pillay Slayen (with distinction)

In Applied Ocean Sciences (Applied Marine Biology):
*Alessandro Guerra
Kim-Kelly Hunt
Mmakabele Lebogang Matlakala
*Emily Lynn Weigum

In Applied Ocean Sciences (Operational Oceanography):
Mathabo Noxolo Malange
Sian Ann Mary Seymour (with distinction)

In Astrophysics & Space Science:
*Tamlyn August
Simthembile Thembelani Dlamini
*Abubakr Yagob Ibrahim
*Kameel Sooknunan (with distinction)

In Biological Sciences:
Thomas Petrus Botha
*Alexandra Connolly
James Andrew De Haast
Michael James Fleischman
Joshua Paul Hendricks
*Laurie Elizabeth Johnson
Amy Leigh Mackintosh
Ditiro Judith Moloto
Zaynab Shaik (with distinction)
Megan Smith

In Biostatistics:
*Onyekachi Esther Nwoko

In Chemistry:
*Marco Bardini
*Hana Bawa
Luyanda Centani
Kelly Chisanga (with distinction)
*Jasmin Ferreira
Nolwazi Zakithi Gcwensa (with distinction)
Emma Jane Tiffin
Reabetswe Robin Zwane

In Climate Change & Development:
*Emmanuel Likoya
Phikolomzi Matikinca
*Giulia Riedo

In Computer Science:
Johan Gerard Bontes (with distinction)
Nick Kayokwa Chibuye
Ngonidzashe Nicholas Choga
Chien-Lun Huang
Wiebke Toussaint (with distinction)
Chelsea-Joy Wardle

In Conservation Biology:
Kerry-Anne Grey (with distinction)
Amy Miriam Hoffenberg
*Sandra Hörbst
Rebecca Peacock Muller (with distinction)
Thinabakho Ruth Lerato Ncube
*Michelle Marie Schroeder
Clara Steyn
Olivia Venter (with distinction)
Joshua Anthony Weiss

In Data Science:
*Riaz Jooma Arbi
*Hans-Peter Bakker
Curtly Blows
*Blake Charles Cuningham
Louwrens Jacobus Labuschagne
Stiaan Roux Maree
*Jason Paul Salzwedel

In Environmental & Geographical Science:
Sisanda Ongeziwe Bekiswa
Tania Duba
*Aniket Ghanashyam
*Michelle Jacqueline Gore
Astridah Kasongo Lupiya
Matjie Lillian Maboya
Koketso Molepo
Ella-Kari Muhl (with distinction)

In Environment, Society & Sustainability:
Stephanie Laura Achieng
*Khathutshelo Takalani Mikosi
Lemogang Molebatsi
Pargeant Nombukiso Ntshalintshali

In Geology:
*Antonia Reis De Carvalho
Ruan Francois De Wet (with distinction)
James Joseph Storr Lister
*Travis Smithard
Lorena Andrea Tafur (with distinction)

In Information Technology:
*Faizel Faker
*Janine Ritchie

In Mathematical Statistics:
Steven Robert Smit (with distinction)

In Molecular & Cell Biology:
Johann Hendrik Els
*Michael Kuipa
*Jarid Tyran North (with distinction)
Inge Pietersen (with distinction)
*Lize-Mari Van Der Linden (with distinction)
Matthew James Robert Verbeek

In Ocean & Atmosphere Science:
Raquel Francesca Flynn
Sbongile Prudence Meyiwa

In Physical Oceanography:
Ehlke De Jong

In Physics:
*Samah Mohamed Ahmed
Ryan Justin Atkin
Kevin Nicholas Barends
Mporome Brian Maboko (with distinction)
Thapelo Given Mametja

In Statistical Ecology:
Jenicca Poongavanan (with distinction)

In Statistical Sciences:
*Lionel Yelibi (with distinction)

In Theoretical Physics:
Alexes Kaitlyn Mes (with distinction)

DEGREE OF DOCTOR OF PHILOSOPHY

In Applied Mathematics:
Sulona Kandhai
Thesis Title: *Investigating the parameter space of viable models for f(R) gravity*

Sulona Kandhai received a BSc in Physics and Astrophysics from UCT in 2010, followed by the National Astrophysics honours in 2011, completing with distinction. In 2012, she was accepted in the NASSP MSc program hosted at UCT, specialising in Cosmology. This work led to a dynamical systems analysis of a viable theory for modified gravity. She began research toward her PhD in 2014, building on the work presented in her MSc.

Sulona Kandhai's thesis combined a number of innovative techniques for describing the expansion history and large-scale structure formation in the cosmology of f(R) theories of gravity. This lead to several new results which enabled her to place strong observational constraints on this class of theories, which correspond to one of the major candidates for explaining the nature of the Dark Side of the Universe. Her work took her to a number of leading research institutions in the UK, Spain and Norway.

Supervisor: Professor P Dunsby (Mathematics and Applied Mathematics)
Co-supervisors: Dr A Dela Cruz-Dombriz (Mathematics and Applied Mathematics); A/Professor A Weltman (Mathematics and Applied Mathematics)

In Astronomy:
Amidou Sorgho
Thesis Title: *Deep HI observations of nearby late-type galaxies*

Born in Azaguié in Ivory Coast, Amidou Sorgho obtained a DEA (2012) in Astronomy after a License in Physics (2010) at the Université de Ouagadougou, in Burkina Faso. Through the National Astronomy and Space Science Programme, he then obtained a MSc at UCT (2015) entitled Galaxies with Extended HI Envelopes.

Amidou Sorgho's thesis first completed a study based on early observations of some of the MHONGOOSE galaxies that will be observed in the coming years with the SKA precursor MeerKAT. For this, he used the test-bed instrument KAT-7, commissioning data from MeerkAT and the 100 m GBT telescope in the USA. After identifying the best calibrators for the galaxies observed with KAT-7, he searched for signs of gas accretion in the GBT data down to column densities of 2.2x1018 cm−2. For the rest of his thesis, Amidou Sorgho analysed a deep HI survey of a large area of the M81 group with the DRAO synthesis radio telescope in Canada. The observations reached a very low column density of the neutral hydrogen gas and showed clearly the arm connecting the M81/M82 system to NGC 2976 and the HI clouds between that group and the galaxy IC 2574.

Supervisor: Professor C Carignan (Astronomy)

In Biological Sciences:
*Hend Sayed Ensair
Thesis Title: *The biology of Boopsoidea inornata (Castelnau, 1861) and life history comparisons within the Sparidae*

Hend Ensair holds an MSc in Science from the University of Az Zaiyah, for which she studied the abundant seabream Boops boops of the Mediterranean. She joined the Department of Biological Sciences at UCT in 2012 to commence her doctoral research.

Hend Ensair's thesis describes a common but poorly known seabream, Boopsoidea inornata, a reef fish endemic to South Africa. After dissecting 800 fish from four locations, she showed that this is a most unusual seabream, in that it is long-lived - up to 37 years - with low fecundity. Female-skewed sex ratios and low male testicular mass suggest a polygamous lifestyle. The survey of parasites infecting this unusual fish is the first comprehensive study of its kind for any South African seabream. Nineteen parasitic species were recorded for the first time, contributing to the knowledge on marine parasite diversity in South Africa. Hend Ensair then compared the life histories of four closely related sympatric seabreams, to expose the dimensions of life-history trade-offs, without the influences of phylogeny and environment. This work offers new perspectives on the trade-offs between hermaphrodites and those with separate sexes.

Supervisor: A/Professor CG Attwood (Biological Sciences)
Co-supervisor: Dr C Reed (Biological Sciences)

Emil Darius Krupandan
Thesis title: *Unravelling the biology of the Southern African Sauropodomorph dinosaurs, Plateosauravus and the 'Maphutseng dinosaur'*

Emil Krupandan completed his BSocSc in 2009 at UCT with majors in Archaeology and Psychology. He subsequently completed his honours in Archaeology in 2010. He registered for an MSc in Biological Sciences in 2012, which was upgraded to a PhD in 2014. Sauropodomorph dinosaurs are well known from the Late Triassic-Early Jurassic of Southern Africa. These dinosaurs are especially significant, since they allow an understanding of how they changed from being relatively small basal bipedal dinosaurs to the gigantic behemoths typical of the more derived sauropods. However, several of the Southern African forms are poorly defined and described.

Emil Krupandan's thesis focuses on unravelling the taxonomic conundrum associated with the poorly understood dinosaurs Plateosauravus and Euskelosaurus, as well as a complete anatomical description, and histological study, of the remains of the so-called "Maphutseng" dinosaur from Lesotho. Using this multiple pronged approach to study these Southern African Sauropodomorpha, Emil Krupandan's study has permitted a clearer assessment of the diversity and phylogenetic relationships of the sauropodomorph dinosaurs that roamed Southern Africa in the Mesozoic, and his analyses have provided deeper insight into the evolution of the growth dynamics of the Sauropodomorpha.

Supervisor: Professor A Chinsamy-Turan (Biological Sciences)
Co-supervisor: Dr D Pol (CONICET – Museo Paleontológico E. Feruglio, Trelew, Argentina)

Muhammad Azher Irfan Nunkoo
Thesis Title: *Studies on the diversity and distribution of marine ichthyoparasites in Southern Africa*

Muhammad Nunkoo has BSc, BSc(Hons) and MSc degrees in Zoology and Biological Sciences from UCT. He started his doctoral research in the Department of Biological Sciences in 2015.

Muhammad Nunkoo's thesis explores the history of marine parasitology in Southern Africa and also examines the factors determining the distribution of parasites in commercially important fish species of the Benguela ecosystem. He reviews two centuries of research to generate a list of parasites known to infect marine fishes in South Africa and shows that our knowledge is biased in favour of particular parasite groups. He attributes this situation to the interest and expertise of those parasitologists who have worked in South Africa. Next, he surveys the parasite fauna of several fish species and uses various statistical techniques to show that the characteristics of the parasites found and ecosystem-scale variability are important determinants of parasite distribution off Southern Africa. His thesis also demonstrates the usefulness of parasites as biological tags in fisheries research.

Supervisor: Dr C Reed (Biological Sciences)
Co-supervisor: Honorary A/Professor SE Kerwath (Department of Agriculture, Forestry and Fisheries/Biological Sciences); Dr CD van der Lingen (Department of Agriculture, Forestry and Fisheries/Biological Sciences)

In Computer Science:
Joan Byamugisha
Thesis Title: *Ontology verbalization in agglutinating Bantu languages: a study of Runyankore and its generalizability*

Joan Byamugisha holds a BSc in Computer Science and Economics from Uganda Martyrs University (UMU) and an MSc in Software Engineering from De Montfort University (DMU). Before her PhD, she worked as a lecturer at a campus of UMU. She is now a Research Scientist at IBM Research.

Joan Byamugisha's thesis focuses on developing algorithms that produce textual output in Bantu languages. Her work contributes to developing computational resources for this family of languages, whose under-resourced state and grammatical complexity has limited their use in most computer applications. She develops algorithms to generate text by obtaining natural language descriptions from logical theories, which requires pluralising nouns, expressing the correct verb form for a particular tense and aspect, and the patterns mapping from logical theories to text. She uses this approach to first generate text in Runyankore, indigenous to Uganda, and then shows that the same approach can be generalised to other agglutinating Bantu languages, demonstrated with chiShona, isiXhosa, Kikuyu, Kinyarwanda, and Luganda. Her work also provides more evidence that, among grammatically similar languages, tailoring language resources from one language to another can reduce the time and effort of the development process.

Supervisor: A/Professor M Keet (Computer Science)
Co-supervisor: Dr B DeRenzi (Dimagi)

In Environmental & Geographical Science:
Siyabusa Mkuhlani
Thesis Title: *Integration of seasonal forecast information and crop models to enhance decision making in small-scale farming systems of South Africa*

Siyabusa Mkuhlani completed his BSc(Hons) and MSc Degrees at the University of Zimbabwe, Harare, and began full time study towards his PhD in 2016.

Siyabusa Mkuhlani's thesis reports on an approach to improve decision making by small scale farmers in South Africa, with the aim of improving climate variability management. For smallholder farming communities, crop production is highly sensitive to climate and its variability. This climate variability challenges farms decision efficiency and often leads to poor productivity and consequent challenges for food security. The approach introduced integrates seasonal forecast information and crop modelling

to assess the performance of a range of management practices, under seasonal forecast available prior to planting. This process leads to a recommendation of practices based on their capacity to achieve high yield and the robustness of this outcome seasonal forecast information. Although the evidence presented was produced in South Africa, the recommendation capacity offers a novel approach and seasonal decision-making knowledge relevant to small farm systems on the African continent and beyond.

Supervisor: Dr O Crespo
(Environmental and Geographical Science)

Farirai Rusere
Thesis Title: *Assessing the value of ecological intensification in improving smallholder farmers' food security and rural livelihoods in a changing climate*

Farirai Rusere holds a BSc(Hons) in Agriculture and a MSc in Agriculture Meteorology from the University of Zimbabwe. He joined UCT in 2016 for his PhD studies in the Department of Environmental and Geographical Science.

Farirai Rusere's thesis explores the global challenge of the immediate need for increased food production with long-term sustainability of our environment. The thesis characterises rural agricultural systems, the farmer's perception and management alternatives in the face of climate variability. Explicitly, the thesis explores how ecological intensification is suited for mostly food insecure and climate-stressed environments of sub-Saharan Africa. It also pays specific attention to the benefits, its impact on greenhouse gas emissions and feasibility for adoption by rural farming communities The evidence produced demonstrates the existence of alternatives, which can intensify smallholder cropping activities without substantial negative impact on the environment and which are locally relevant and globally applicable.

Supervisor: Dr O Crespo
(Environmental and Geographical Science)

In Mathematics:
Murray Brian Christian
Thesis Title: *Constant mean curvature 1/2 surfaces in $H^2 \times R$*

Murray Christian completed his BSc in Mathematics and Applied Mathematics at the University of KwaZulu-Natal in 2009, and his BSc(Hons) at UCT in 2010. In June 2011 he began working on an MSc, which was upgraded to a PhD in January 2013.

Murray Christian's thesis studies constant mean curvature ½ surfaces in the product of the hyperbolic plane and the real line, H2xR. The thesis constructs new examples of such surfaces, by solving boundary value problems for the mean curvature equation. These examples are asymptotic to the ends of a family of horizontal catenoids discovered by B. Daniel and L. Hauswirth. The non-linear mean curvature equation is solved by perturbation methods, using a careful analysis of its linearisation on suitable weighted function spaces. Possible future applications to a gluing construction are discussed.

Supervisor: Dr F Ebobisse Bille (Mathematics and Applied Mathematics)
Co-supervisor: Dr J Ratzkin (University of Würzburg)

In Molecular & Cell Biology:
Stephen Antonie Schlebusch
Thesis Title: *Events that shape genomes*

Stephen Schlebusch has a BSc in Genetics and a BSc(Hons) from the Department of Molecular and Cell Biology at UCT. He has contributed to work published in prestigious journals such as Nature Genetics and Nature Methods and in 2014 won a Research Associateship Award.

Stephen Schlebusch's thesis uses modern sequencing technology to investigate a wide range of species at the genomic level. This work spans from Yellow baboons in Kenya, which have hybridised on multiple occasions with Olive baboons, changing the local gene pool, to the resurrection plant Xerophyta humilis, which appears to accumulate vast amounts of somatic mutations over the course of its life. Also from the Natal long-fingered bat, which was used as a model to understand the evolution of the bat wing, to the rapidly evolving Ruschieae plants, which have recently undergone large levels of small scale duplications within their genomes. In total, he sequences and assembles six new genomes. These will serve as valuable resources for future research.

Supervisor: Professor N Illing (Molecular and Cell Biology)
Co-supervisor: Dr J Wall (Institute for Human Genetics, University of California)

In Ocean & Atmosphere Science:
Emma Lewis Bone
Thesis Title: *A novel approach to investigating chlorophyll-a fluorescence quantum yield variability in the Southern Ocean*

Emma Bone completed an MSc(Med) in Cell Biology at UCT in 2010. She moved away from skin cancer research to begin her PhD in Oceanography in 2012.

Emma Bone's thesis focuses on better understanding phytoplankton dynamics in the globally-important Southern Ocean. She initially re-purposed an instrument, originally designed for a different intention, by performing a full radiometric characterisation and subsequent calibration, for use in chlorophyll-a fluorescence quantum yield (FQY) determination. The instrument was deployed on various Southern Ocean cruises, yielding in situ FQY estimates. The in situ measurements are used to validate existing satellite ocean colour algorithms used to derive FQY from space. This is the first time such an instrument has been implemented to derive in situ FQY measurements, the first time such measurements have been performed in the Atlantic Southern Ocean, and the first time satellite FQY-algorithms have been validated with such measurements. This research contributes significantly to her field, offering a feasible option to obtaining routine in situ FQY measurements,

thus improving regional FQY-satellite algorithms.

Supervisor: A/Professor M Vichi (Oceanography)
Co-supervisors: Drs SJ Thomalla; Stewart Bernard; ME Smith and TJ Ryan-Keogh (Oceanography)

Laura Valerie Braby
Thesis Title: *A study of mesoscale eddies, the Agulhas Current and the evolution of its meanders using satellite observations and numerical modelling experiments*

Laura Braby completed her MSc in Ocean and Climate Dynamics at UCT in 2014 and began her PhD in the same department in 2015.

Laura Braby's thesis investigates the characteristics of mesoscale eddies and meanders generated on the Agulhas Current and their interactions, using a combination of satellite observations, surface drifter data and experiments with regional ocean models. It was found that eddies originating from the Mozambique Channel and from the region south of Madagascar dissipate as they approach the northern Agulhas Current, but affect the mean velocity and offshore position of the current as they entrain within it, depending on whether the eddy is anticyclonic or cyclonic. The effects on eddy kinetic energy and eddy properties of forcing a regional ocean model using relative versus absolute winds were investigated. In addition, the changes in the ability of the model to adequately represent meanders on the Agulhas Current in the two wind forcing experiments were analysed.

Supervisor: Professor CJC Reason (Oceanography)
Co-supervisors: Dr BC Backeberg (CSIR); Dr MJ Krug (CSIR)

In Physics:
David Nicholaas De Klerk
Thesis Title: *Investigating multi-directional inhomogeneous granular suspensions*

David de Klerk completed his BSc at the University of Pretoria, then moved to UCT for a BSc(Hons) and MSc. He joined the Department of Physics and Centre for Minerals Research in 2013 and began work on his PhD in 2015.

David de Klerk's thesis investigated several aspects of granular suspensions in rotating drums. The use of the ergodic hypothesis (which states that time averages of a single particle is equivalent to ensemble averages of all the particles) in Positron Emission Particle Tracking (PEPT) experiments was investigated with novel techniques and improvements were suggested. A second series of PEPT experiments, with glass beads and water/glycerol mixtures, and Discrete Element Method (DEM) simulations, with a lubrication approximation to capture viscous effects of the fluid, validated the simulation technique. In addition, the simulation results compared favourably to the leading models of granular rheology and dense granular suspensions in the literature.

Supervisor: Professor A Mainza (Chemical Engineering)
Co-supervisor: Professor I Govender (Physics and Chemical Engineering)

In Statistical Sciences:
*Abdul-Karim Iddrisu
Thesis Title: *Sensitivity analysis approaches for incomplete longitudinal data in a multi-centre clinical trial*

Abdul-Karim Iddrisu holds a BSc in Statistics from the University for Development Studies, Ghana, a Postgraduate Diploma in Science (Mathematical Sciences) from Stellenbosch University, and an MSc in Statistics from University of KwaZulu-Natal. He joined the Department of Statistical Sciences at UCT in 2014 for his PhD studies.

Abdul-Karim Iddrisu's thesis focuses on sensitivity analysis methods, which investigate the robustness of statistical inferences to plausible alternative assumptions about the missing data. Missing data are ubiquitous in longitudinal studies, such as clinical trials, and may severely compromise statistical inferences if not accounted for. Methods of analysis for such data are based on plausible scientific assumptions which are unverifiable using the data at hand. Abdul-Karim Iddrisu starts by surveying the literature on the models for missing longitudinal data and sensitivity analysis methods. He summarises and compares various models for missing longitudinal data and sensitivity analysis. He then reviews and extends selected sensitivity analysis approaches in clinical trials setting. A multicentre clinical trial dataset and suitably constructed simulations are put through estimation and analysis processes. He appends annotated coding of R, SAS and STATA routines in his thesis.

Supervisor: Dr F Gumedze (Statistical Sciences)

In Zoology:
Jessica Dawson
Thesis Title: *Terrestrial-aquatic transfers by hippopotamus (Hippopotamus amphibius): effects on food web and benthic community structure of the St Lucia Estuary, iSimangaliso Wetland Park, World Heritage Site, South Africa*

Jessica Dawson completed her BSc, BSc(Hons) and MSc degrees at UCT, before embarking on her PhD research in 2012. This involved collaborations with both Rhodes University and Nelson Mandela University.

Jessica Dawson's thesis quantifies the effects of trophic transfers mediated by hippos, on assemblages and ecological processes in the St Lucia Estuary. Using in situ experiments, she showed that such transfers can generate major ecosystem effects, mainly in the form of reduced benthic primary and secondary productivity. Experiments demonstrated reductions in benthic microalgal biomass by up to 70 % and macrofaunal abundance by 76 %, with taxon richness and biomass similarly displaying declining trends. Using tracer techniques, such as fatty acid and stable isotope analyses, she additionally demonstrated that hippo-mediated transfers can alter trophic

relationships by modifying the bases of food webs. Her findings suggest that this is achieved by basal resources of lower nutritional value becoming more dominant. Overall, Jessica Dawson's work provides novel and highly relevant insights on the role of an iconic African megaherbivore as a biological engineer in aquatic ecosystems.

Supervisor: Dr D Pillay (Biological Sciences)

Welly Qwabe
Thesis Title: *Interactions between ecosystem engineering by burrowing sandprawns (Callichirus kraussi) and nutrients: consequences for benthic community structure and ecosystem functioning*

Welly Qwabe holds undergraduate degrees from the University of Zululand and an MSc in Biological Sciences from UCT. Since joining UCT, he has developed strong interests in marine biodiversity, particularly in ecological processes that influence it in space and time.

Welly Qwabe's thesis focuses on nutrient inputs and burrowing ecosystem engineers (sandprawns: Callichirus kraussi), and the extent to which they influence the functioning of intertidal sandflat ecosystems. His field work demonstrated that seasonal nutrient and productivity pulses from the Atlantic Ocean have little impact on diversity indicators, due partially to habitat modification by burrowing sandprawns, which limits resource availability. Using field experiments, he showed that biological engineering overrides nutrient effects on diversity and community indicators, but that subtle interactions between these processes alter functional composition. Overall, this work has shown that effects of nutrient pulses on intertidal sandflat ecosystems may be contextually dependent. Expected effects may not materialise if systems are dominated by bio-engineering sandprawns, which alter biotic responses to nutrients. Welly Qwabe's work broadens understanding of the role of contextual processes in determining ecological functioning in intertidal sandflat ecosystems.

Supervisor: Dr D Pillay (Biological Sciences)

5. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor A E Lewis

DEGREE OF DOCTOR OF PHILOSOPHY

In Architecture:
Furaha Abwe Germain
Thesis Title: *A web of relations: co-production arrangements in urban sanitation infrastructure provision in informal settlements in Arusha city, Tanzania*

Furaha Abwe holds a BSc in Urban and Regional Planning and an MSc in Urban Planning and Management from Dar es Salaam and Ardhi Universities, Tanzania. He commenced his PhD at the School of Architecture and Planning at UCT in 2012, whilst teaching at Mt Meru University in Tanzania.

Furaha Abwe's thesis explores processes of co-production in urban sanitation infrastructure provision among multiple actors in informal settlements in Arusha, Tanzania. He sought to interrogate whether emerging co-productive arrangements are indicative of an alternative form of city governance in the global South. The study adopted a relational approach, informed by Actor- Network Theory and Assemblage Thinking in understanding human-material interactions in the sanitation chain. He found this process to be dynamic and contextually informed: various actors interact and form networks at different moments in the sanitation chain. These networks make service delivery possible where one actor alone could not deliver, with the household central to delivery. Contextual factors such as culture, land tenure, gender and state inaction impact on delivery. Despite structural constraints, co-production plays a key role in enabling infrastructure access and does suggest an alternative form of city governance in the absence of an enabling state.

Supervisor: A/Professor N Odendaal (Architecture, Planning & Geomatics)

In Architecture & Planning:
Eduardo Guillermo Delgado Castañeda
Thesis title: *Land and housing practices in Namibia: cases of access to land rights and production of housing in Windhoek, Oshakati and Gobabis*

Eduardo Delgado Castañeda holds a degree in architecture from the Universidad Iberoamericana in Mexico and a Master's degree in architecture from the Berlage Institute in the Netherlands. He has worked with non-governmental organisations and other academic institutions in Namibia and internationally on socio-spatial issues.

Eduardo Delgado Castañeda's thesis documents three processes of access to land for housing in three different urban contexts in Namibia. He employs two separate, yet related, concepts in socio-spatial production, namely 'co-production' and 'autogestion' in the analysis of the three case studies. In doing so, he has uncovered the variety of strategies and alliances that are required to meet the realities on the ground within the 'formal' reality of government and professionals. He argues for the need to deepen theoretically the concept of co-production and suggests that this can be done by thinking in abstract about the ways in which 'co-productive' socio-spatial processes take place. His study contributes to on-going debates on urbanisation in the Global South and provides useful lessons for socio-spatial practitioners and those seeking new ways to transform the places we live.

Supervisor: A/Professor N Odendaal (Architecture, Planning and Geomatics)
Co-supervisor: Professor V Watson (Architecture, Planning and Geomatics)

Mtafu Almiton Zeleza Manda
Thesis Title: *Understanding the context of informality: urban planning under different land tenure systems in Mzuzu, Malawi*

Mtafu Manda holds a BSocSc from University of Malawi, Postgraduate diplomas from Erasmus University and University of Botswana, and a Master of Science in Urban Planning from University College, London. He is a lecturer in the Built Environment Department at Mzuzu University in Malawi.

Mtafu Manda's thesis focuses on settlement informality in Mzuzu, Malawi. It explores the difficulty that urban planners face in their attempt to achieve planned urban development in the face of persistent and expanding informal settlements. It analyses how different actors contribute to this situation because of contradictions in their understandings of policy demands and livelihoods needs, and contradictions between the practices of various actors at different levels within the state and society. It shows that informal settlements develop on public, customary or private land and explores how these different land tenure systems give rise to various forms of engagement between the state and informal settlers and within each of these categories. The thesis supports theoretical assertions in urban scholarship that informality can be produced by the state and by poor households, but with both the state and informal settlers using tactics and strategies which are shaped by the Malawian context.

Supervisor: Professor V Watson
(Architecture, Planning and Geomatics)

In Chemical Engineering:
Alexey Cherkaev
Thesis Title: *The art of soaking rocks: systematic study of liquid and solute flow in packed rock beds in the context of heap leaching*

Alexey Cherkaev graduated with an MSc (Mathematics) from Moscow State University in 2007, and an MSc(Eng) in Chemical Engineering from UCT in 2010.

Alexey Cherkaev's thesis investigates the hydrodynamics of packed rock beds typical of heap leach operations from both a theoretical (modelling) and empirical angle. By analysing the results of steady state gravimetric studies and residence time distribution experiments on beds of different packings, he proposes two novel models describing the hydrodynamics of flow through such beds. The first model directly links ore particle size distribution and liquid hold-up, bypassing the need to employ models based on Darcy's law. The second model, utilising the fact that liquid flows in interconnected channels, explains the apparent mixed behaviour of the flow. These findings will help to reduce the amount of the test work involved in the design and scale-up of heap leaching operations.

Supervisor: Professor J Petersen
(Chemical Engineering)
Co-supervisor: Professor STL Harrison
(Chemical Engineering)

Edmund Engelbrecht
Thesis Title: *Crystal growth and nucleation kinetics of diethylenetriammonium hexachlororhodate (III) salt*

Edmund Engelbrecht completed his B.Eng. (Chem) qualification at Stellenbosch University, and began part-time study towards his MSc in 2008 at UCT. In 2012 the MSc was upgraded to a PhD that was completed part-time whilst working for Anglo American Platinum.

Edmund Engelbrecht's thesis shows that crystal growth of diethylenetriammonium hexachlororhodate (III) salt in a mixed suspension mixed product removal reactor configuration
(MSMPR) is limited by surface integration and is polynuclear. In a plug flow reactor (PFR) configuration crystal growth was found to be limited by mass transfer. The differences in growth mechanisms gave rise to vastly different crystal structures, a desert rose type structure in the MSMPR, and a feathery elongated structure in the PFR. The investigation further highlighted that the crystal nucleation and growth rates in a MSMPR are slower compared to the rates observed in a PFR and are primarily related to differences in mixing conditions within each reactor configuration. The work shows that varying reactor configuration affords an opportunity to manipulate crystal morphology that may lead to higher purity crystals.

Supervisor: Professor AE Lewis
(Chemical Engineering)

Xolisa Camagu Goso
Thesis title: *Phase equilibria studies and beneficiation of titaniferous slags*

Xolisa Goso completed an MTech degree in chemistry at the University of Johannesburg. He is currently working for Mintek's pyrometallurgy division as a principal scientist, and enrolled with the Chemical Engineering Department at UCT for PhD studies in 2013.

Xolisa Goso's thesis focuses on the establishment of suitable phase equilibria of titaniferous slags, currently a waste material from titaniferous magnetite smelting, to use as a guide during the smelting process in order to produce a slag that can be beneficiated to a titania product – the primary input to the manufacture of pigment used in many applications including paints and paper. His studies revealed, through using the FactSage software and equilibration-quench experiments, that a titaniferous slag, in the compositional range studied, with a MgO concentration of 2% or less, would not precipitate spinel, a chemically inert phase that renders these slags valueless. He demonstrated the beneficiation of a titaniferous slag produced in this manner using the Upgraded Slag process from 22.0% to 90.5% TiO2. This product is suitable for use as feedstock for sulphate pigment production. The developed process demonstrates the avoidance of waste through production of a valuable by-product.

Supervisor: Professor J Petersen
(Chemical Engineering)
Co-supervisor: Dr J Nell (Hatch)

Lebohang Macheli
Thesis title: *Inverse model systems to investigate metal-support interactions in Fischer-Tropsch catalysis*

Lebohang Macheli obtained his BSc (Chemical Technology) degree from the National University of Lesotho in 2008. He obtained a MSc(Eng) in Chemical Engineering from the University of Cape Town, before commencing full-time study towards his PhD in 2015.

Lebohang Macheli's thesis investigated the role of metal-support interactions in cobalt-based Fischer-Tropsch catalysts using inverse model systems. This model system isolates the extent of metal- support interaction. He developed a method to prepare an inverse model system by modifying the surface of cobalt with small amounts of silanes. This modification process brought the realization that metal-support interactions can enhance the activity of cobalt-based catalysts in the Fischer-Tropsch synthesis. Furthermore, he showed that metal-support interaction in inverse systems can be tuned using various preparation treatments, in such a way to positively affect their catalytic activity.

Supervisor: Professor E van Steen (Chemical Engineering)

Didi Xhanti Makaula
Thesis title: *Developing quantitative approaches to determine microbial colonization and activity in mineral bioleaching and characterization of acid rock drainage*

Didi Makaula completed his BSc(Hons) in Biotechnology at the University of the Western Cape. He then obtained an MSc in Biotechnology at UWC before registering for a PhD specialising in bioprocess engineering in CeBER, Chemical Engineering at UCT.

Didi Makaula's thesis focuses on the role of microorganisms attached to and growing on the surface of mineral sulfide ores in the dissolution of metals and other ions from these ores. He established methods for quantification of the microbial phase, analysis of polysaccharides associated in biofilm formation, and quantification of the metabolic activity present in the ore bed through isothermal calorimetry, all based on mineral surface area. These were used to establish the progression of microbial colonisation and its role in maximizing metal recovery from low grade resources while minimising pollution sources such as acid rock drainage (ARD). Insight into these leaching reactions and the role of microorganisms in accelerating them sheds light on mineral dissolution which can be optimised for recovery of metal values or minimised to reduce environmental pollution. These findings are particularly relevant to the optimum beneficiation of complex minerals, enhancing resource productivity, to recover mineral value from waste rocks and to ensure responsible mine site closure and rehabilitation.

Supervisor: Professor STL Harrison (Chemical Engineering)
Co-supervisors: Dr RJ Huddy (Chemical Engineering)
Dr MA Fagan-Endres (Chemical Engineering)

Linus Naik
Thesis Title: *An investigation of the potential and the limitations of small-scale biogas in urban Africa*

Linus Naik holds BSc(Eng) and MSc(Eng) degrees in Chemical Engineering, both from UCT. In his PhD research, he aimed to build on this foundation, applying the bioprocess engineering knowledge from his Masters to real service provision challenges in urban Africa.

Linus Naik's thesis interrogates the use of small, distributed biogas digesters to meet energy and waste management needs in urban Africa. Field observation of a biogas digester identified parameters to be monitored. A mobile phone application was built to assist with the data capture by users. This smart-phone application was used to gather data and develop profiles of ten installed biogas units around southern Africa over a year. Based on the insights gathered, hands-on test-work was carried out on one other small biogas unit, processing mall organic waste. The results from these studies provide new insights into factors which affect the productivity and stability of small-scale biogas units. The thesis proposes contexts where small-scale biogas can be successful in the urban setting, and the knowledge support needed to safeguard such new forms of infrastructure investment.

Supervisor: Professor H von Blottnitz (Chemical Engineering)

In Civil Engineering:
Eric Adjei
Thesis Title: *Travel behaviour dynamics: a mobility biography study towards change*

Eric Adjei holds a BSc(Hons) in Civil Engineering from the Kwame Nkrumah University of Science and Technology, Ghana. He pursued an MSc degree in Geographic Information Systems for Urban Planning and Management at the University of Twente, The Netherlands.

Eric Adjei's thesis explores habit-breaking amongst Cape Town commuters, with a view to refining theoretical explanations of how, why and when travel behaviour changes, and improving travel demand management practices. His thesis starts with a review of theories explaining travel choice. He then investigates the extent to which mode use choices are habitual, and the effect of life events on habit breaking. Changes in vehicle ownership, job location and residence are observed to have the greatest influence on behaviour change. He then analyses the processes individuals – experiencing any of these three life events – go through in changing mode use behaviour. Individuals were found to begin deliberating about mode use change about 30 days before the occurrence of the life event, stopping almost immediately thereafter. Prior conceptualisations of these processes have assumed that deliberation and information-seeking occur immediately after the life event is experienced. He therefore proposes individuals are targeted with travel demand management measures before they experience a life event, rather than afterwards.

Supervisor: A/Professor R Behrens (Civil Engineering)

Imuentinyan Aivinhenyo
Thesis Title: *Development of context-sensitive accessibility indicators: a GIS-based modelling approach for Cape Town*

Imuentinyan Aivinhenyo completed his BEng degree in Civil Engineering at the University of Benin, Nigeria, his home country. He obtained his MSc from the prestigious MIT Portugal Program at the Technical University of Lisbon, Portugal, and commenced his PhD studies in 2014 at UCT under the UCT Carnegie Fellowship.

Imuentinyan Aivinhenyo's thesis investigates the transport system of Cape Town and how it enables residents to access essential opportunities such as jobs, education and healthcare. Of key consideration is the monetary cost of travel, and the implication on reachability of these opportunities for low-income households. He utilized several data including the route networks of transport modes such as bus, minibus taxi, train and the MyCiTi BRT system, to develop models that calculate and visualise the level of accessibility for every location in Cape Town. His research finds application in the area of spatial planning of land use and transport infrastructure, by enabling planners and decision makers to identify areas across the city that lacks access to vital opportunities, thereby guiding policies on optimal location of new infrastructure, transport services and land use development.

Supervisor: Professor M Zuidgeest (Civil Engineering)

Abisai Hashokuali Konstantinus
Thesis Title: *Opportunities for short-sea shipping (SSS) in the Southern Africa Development Community (SADC) Region: Evidence based on discrete choice modeling*

Abisai Konstantinus holds a national diploma in maritime studies from CPUT, an MPhil in Shipping Law from UCT, an MSc in Shipping Management and Logistics from WMU (Sweden), a professional qualification in shipbroking from ICS (UK) and is a qualified captain of ships (SAMSA).

Abisai Konstantinus' thesis investigates the take up of short-sea shipping (SSS) in the SADC region. He first assessed the theoretical potential for SSS considering the transport realities, policies and infrastructure levels in the SADC region; he then goes on to develop a number of discrete choice models to assess the take up of SSS by shippers and carriers. The take up of SSS by shippers is assessed along 5 transport corridors in the SADC region: Walvis Bay–Cape Town, Durban–Beira, Cape Town–Windhoek, Walvis Bay-Luanda and Durban–Harare. Following this, he studied the take up of SSS by maritime carriers, by evaluating the conditions under which they will participate in SSS. Finally, he employed the modeling outcomes to estimate willingness to pay and attribute elasticities, and the policy implications in terms of developing SSS in SADC. These findings will be useful to develop maritime transport in the SADC region.

Supervisor: Professor M Zuidgeest (Civil Engineering)

Tanya Elizabeth Lane
Thesis Title: *Towards sustainable freight energy management: development of a strategic decision support tool*

Tanya Lane obtained a bachelor's degree in Industrial and Systems Engineering cum laude from the University of Pretoria. She subsequently enrolled for a master's degree in Transport Engineering at UCT and, after completing the coursework component with distinction, her enrolment was upgraded to PhD.

The aim of Tanya Lane's thesis research was to develop a decision support tool which addresses the complexities involved in the formulation of freight transport energy management strategies, facilitating the development of holistic, sustainable and comprehensive freight management policy by government level decision-makers. The Freight Transport Energy Management Tool (FTEMT) was developed in response to this research objective and can be classified as a simulation optimisation model, which is a combination between multi-objective optimisation and simulation. Although the problem originates from the domain of sustainable transportation planning, the combination of operations research and transport modelling knowledge applied in this research proved essential in developing a decision support tool that is able to generate adequate decision support for the problem. This work serves as a basis to stimulate further scholarship and expands upon collective knowledge on freight transport energy management.

Supervisor: A/Professor M Vanderschuren (Civil Engineering)

Rene Mathias Nsanzintore Nsanzubuhoro
Thesis Title: *Pressure-based leakage characterisation of bulk pipelines*

Rene Nsanzubuhoro holds a BSc(Eng) in Civil Engineering and MSc(Eng) in Civil Engineering from UCT. He was awarded a Mandela Rhodes Scholarship and recently won the national Three Minute Thesis competition.

Rene Nsanzubuhoro's research focuses on the leakage characterisation of bulk water pipelines using a novel pressure-based technique. It is notoriously difficult to assess leakage in bulk water pipelines and this is rarely done. Rene designed a robust field test device and used it, in combination with the latest knowledge on leak area variation with pressure, to characterise the leakage of a range of different bulk water pipes in the field. He was able to identify leaking isolation valves, the size and type of leaks present, and in some cases the location of the leaks. He developed and verified a novel theory for characterising leakage based on the time-dependent drop in pressure observed in an isolated pipe. This technique can be used when the leak is too small to be detected by the device's flow meter. The study demonstrated the effectiveness of the proposed technique for practical application.

Supervisor: Professor JE van Zyl (Civil Engineering)

In Construction Economics & Management:
Unekwu Jonathan Adama
Thesis Title: *A study of the impact of technological innovations on the social sustainability of facilities management employees in South Africa*

Unekwu Adama holds a BTech in Estate Management and MTech in Environmental Management from the Federal University of Technology, Minna, Nigeria. He joined the Construction Economics and Management Department at UCT in 2016 for his PhD studies, before which he lectured at the Federal University of Technology, Minna, Nigeria.

Unekwu Adama's thesis focuses on the impact of technological innovations on the social sustainability of facilities management employees in South Africa. He starts by conducting an interdisciplinary literature review to find employee social wellbeing factors that are impacted by the adoption of technological innovations. He then proceeds to do a countrywide survey to validate 16 employee social wellbeing factors and also to determine the types of technological innovations that facilities management organisations were utilising in South Africa. Through a pair-wise study, he uses facilities managers' expert opinions and interpretive structural modelling approach to assess the employee social wellbeing factors. He finds that the adoption of technology innovations impacts the social sustainability of facilities management employees and that information communication-based technology, cloud-based technologies and sensors are primarily responsible for the impact. He develops a framework for managing the social impact of technology adoption on the social sustainability of facilities management employees.

Supervisor: A/Professor K Michell (Construction Economics and Management)

Alireza Moghayedi
Thesis Title: *Modelling uncertainty of cost and time in infrastructure projects*

Alireza Moghayedi holds a BSc in Civil Engineering, and MSc degrees in Construction Management and Civil Engineering. He joined the Construction Economics and Management Department at UCT in 2016 for doctoral studies, before which he worked as Director of Technology and Technical studies with the Ministry of Roads and Urban Development, Iran.

Alireza Moghayedi's thesis focuses on developing a hybrid intelligent model that predicts the impact size of different sources of uncertainty in the construction process of infrastructure projects, aimed at improving the accuracy of the estimation of construction cost and time of infrastructure projects. He developed a hybrid intelligent uncertainty model that simulates the impact of variability, correlation and uncertainty events on cost and time of infrastructure projects, by combining the strength of classical simulation methods and artificial intelligence prediction technique. The uncertainty model can estimate the cost and time of infrastructure projects with 99% accuracy.

Supervisor: A/Professor A Windapo (Construction Economics and Management)

Bridgit Gugulethu Taruvinga
Thesis title: *Market solutions to the low-income housing challenge – a case study of Bulawayo, Zimbabwe*

Bridgit Taruvinga completed her BCom Honours degree in Finance and MSc in Finance and Investments at the National University of Science and Technology, Zimbabwe, in 2008 and 2011 respectively. She commenced her PhD studies at UCT in 2015.

Bridgit Taruvinga's thesis focuses on exploring market solutions to the low-income housing challenge. She developed a conceptual framework that can be used to theoretically ground studies in this field, and using empirical data from five case studies in Bulawayo, applied the conceptual framework to explicate causal mechanisms for private-sector involvement in low-income housing in such an adverse operating environment, which is characteristic of most developing countries, and the constraints faced and the strategies used by the developers. The findings indicate that challenges faced by developers emanate from the institutional environment and access to resources, and all strategies applied by the developers have an overriding objective of cost containment. The findings indicate that there is potential, appetite and scope for more private-sector engagement, and that that the key to unlocking this potential lies with the state, via a number of policy reforms.

Supervisor: A/Professor MM Mooya (Construction Economics & Management)

In Electrical Engineering:
Munyaradzi Justice Chihota
Thesis Title: *Extending the Herman-Beta transform for probabilistic load flow analysis of radial feeders*

Justice Chihota received his BSc(Eng) and MSc(Eng) qualifications at UCT and began full-time study towards a PhD in 2016.

Justice Chihota's thesis reports on the extension of the Herman-Beta algorithm for probabilistic load flow (PLF) calculations for low voltage radial feeders, which is the present design standard for electrification in South Africa. The novel formulation of the Herman-Beta Extended (HBE) transform with consideration of complex-type input parameters redresses the network model simplifications of unity power factor loads and resistive feeders in the initial algorithm. Further, the effects of dependency between loads and distributed generation (DG) are incorporated. The HBE transform opens many possibilities for new applications, including the accurate analysis of the PLF for feeders at any voltage, compensated feeders, and systems with voltage-dependent loads or DG. The new tool is relevant for power system planning. The HBE transform is also

essential in determining the capacity of existing power grids to accommodate new renewable energy sources.

Supervisor: Emeritus Professor CT Gaunt (Electrical Engineering)
Co-supervisor: Dr R Herman (Electrical Engineering)

Hilary Kudzai Chisepo
Thesis Title: *Measurements and finite element modelling of transformer fluxes with dc and power frequency current*

Hilary Chisepo has an MSc(Eng) degree from UCT. His doctoral work emerged from his master's project and experience as a support and development engineer in the transformer manufacturing industry.

Hilary Chisepo's thesis accurately models the complex responses of transformers to geomagnetically induced currents (GIC) caused by solar flares, disturbing power electricity supply networks. The thesis performed physical testing and finite element matrix (FEM) modelling to study the magnetic flux distributions in transformers to derive useful parameters for network modelling and transformer design. Improved 2D FEM models with "equivalent" air gaps at the core joints resulted in better accuracy compared to existing techniques. Further accuracy in the depiction of the harmful stray flux due to GIC/dc was achieved in novel 3D FEM models. The research can aid manufacturers and power utilities in making transformers and networks more reliable.

Supervisor: Emeritus Professor CT Gaunt (Electrical Engineering)
Co-supervisor: Professor KA Folly (Electrical Engineering)

Ismaheel Oyeyemi Oladejo
Thesis Title: *Energy management of micro-grid using cooperative game theory*

Ismaheel Oladejo holds a BEng in Electrical Engineering from University of Ilorin, and MEng degree in Electrical Engineering from Federal University of Technology, Akure, both in Nigeria. He lectured at the Polytechnic, Ibadan, before commencing PhD studies at UCT.

Ismaheel Oladejo's thesis addresses the problem of energy management of micro-grid in a fair multi-partner profit distribution manner. He proposes a micro-grid energy management to provide a fair profit distribution amongst the micro-grid participants. The approach is formulated based on game theory using the generalised Nash bargaining solution to obtain optimal fair profit distribution with negotiation power indicators. A case of six local sites with different energy demand profiles was used with the possibility of comparing cooperation game theory method with an independent method. The solutions were empirically evaluated to show that cooperative game theory increases profit compared to when there is no game theory. The investigation was extended to a novel approach of game theory using the generalized Nash bargaining solution, where a particular participant needs to be favoured, therefore such a participant receives higher profit than other participants. The higher profit can be allocated to favour any participant of a micro-grid. The new approach can be applied to energy management of micro-grids having many players and in power system operating electricity markets.

Supervisor: Professor KA Folly (Electrical Engineering)

Stephen Thomas Paine
Thesis Title: *Electronic countermeasures applied to passive radar*

Stephen Paine obtained his BSc in Electrical Engineering from UCT in 2014 before completing his MSc in Radar and Electronic Defence in 2016, specialising in RF and antenna design.

Stephen Paine's thesis made the novel contribution of a comprehensive exploration and validation of various Electronic Counter Measure (ECM) techniques and their effectiveness when applied to Passive Radar (PR). Extensive research has been conducted to assess the inherent properties of the lluminators of Opportunity to identify their possible weaknesses for the purpose of applying targeted ECM. A waveform study was performed to determine the optimal jamming waveform for an FM radio based PR. The importance of an effective direct signal interference (DSI) canceller was also shown as a means of suppressing the jamming signal. The two main processing techniques for DVB-T2 based PR, mismatched and inverse filtering, were investigated and their performance in the presence of jamming evaluated. The deterministic components of the DVB-T2 waveform were shown to be an effective form of attack for both mismatched filtering and inverse filtering techniques.

Supervisor: A/Professor D O'Hagan (Electrical Engineering)

Jacobus Stephanus Sandenbergh
Thesis Title: *Synchronising coherent networked radar using low-cost GPS-disciplined oscillators*

Jacobus Sandenbergh holds a BEng degree from Stellenbosch University, and began full-time study towards his PhD in 2006.

Jacobus Sandenbergh's thesis evaluated the viability of using low-cost GPS-synchronised oscillators (GPSDOs) to synchronise multistatic networked radar. He improved and simplified the specification of multistatic radar synchronisation, enabling the rapid selection of an appropriate synchronisation technology. Then, he designed and built three GPSDOs containing a unique phase-locked loop architecture and time synchronisation mechanism. He later used these GPSDOs to synchronise an actual networked radar which resulted in the first published GPS phase synchronised pulsed-Doppler multistatic radar. He has shown that GPS time transfer is adequate to synchronise this kind of radar and that the direct antenna sidelobe breakthrough can be used over baselines of a few kilometres to improve the synchronisation to monostatic levels. Hence, high-performance but low-cost coherent multistatic systems are realisable for short baselines to improve

significantly the detection of small targets in high clutter environments such as rough seas.

Supervisor: Emeritus Professor MR Inggs (Electrical Engineering)

Uyoata Etuk Uyoata
Thesis Title: *Relay assisted device-to-device communication with channel uncertainty*

Uyoata Uyoata completed his BEng(Hons) at the Federal University of Technology, Yola, Nigeria, and an MSc at the University of Bradford. He began full-time study towards his PhD at UCT in 2016.

Uyoata Uyoata's thesis focused on designing techniques to select a mobile device to relay data between pairs of other user devices when there is imperfect channel state information. Modelling the problem as a matching market between relays and device pairs, he proposed a relay selection approach, based on stable matching. To cater for the buffer state of the relays, he showed that a cross-layer relay selection method can offer reasonable spectral efficiency gains. He showed that channel uncertainty arising from imperfect channel state information can deteriorate the performance of relay networks, by modelling the uncertainty in deterministic and probabilistic formats. He went on to show that although clustering of devices could be beneficial to networks, performance gains drop with arbitrary cluster size increase. The results from his work showed that the selection algorithms proposed offer gains over comparable benchmark algorithms and also cater to the self-interest of relay device holders.

Supervisor: Dr J Mwangama (Electrical Engineering)
Co-supervisor: Emeritus A/Professor M Dlodlo (Electrical Engineering)

In Energy Studies:
*Anna Maratovna Azarch
Thesis Title: *US energy policy and its position in the United Nations Framework Convention on Climate Change (UNFCCC) negotiations: a theory-guided historical analysis*

Anna Azarch holds an MA in International Studies from Stellenbosch University and began her full-time study towards a PhD in 2013.

Anna Azarch's thesis analyses the interaction between US energy policy and its negotiating position in the United Nations Framework Convention on Climate Change (UNFCCC), in which understanding how different administrations balanced competing policy goals is pivotal in understanding these dynamics. The analysis was basedon conducting a historical case study of the United States of America's position in these negotiations and how its energy policy interacts with this over the period from 1989 to 2015. A historical overview indicates the challenges that succeeding administrations faced in grappling with contradictory policy objectives in accordance with the perceived costs and benefits of various policy goals and instruments at both the domestic and international levels, and its implications for their position and ability to cooperate within the UNFCCC.

Supervisor: Dr A Marquard (Mechanical Engineering)
Co-supervisor: A/Professor K Smith (Political Studies)

In Geomatics:
Simon Antony Hull
Thesis title: *A framework for guiding cadastral systems development in customary land rights contexts*

Simon Hull completed his BSc (Land Surveying) at the University of KwaZulu-Natal in 1997, and his MSc at UCT in 2000. Before joining UCT as a staff member in 2012, he worked as a professional land surveyor and then as a high school Maths and Sciences teacher, completing a PGCE through UNISA in 2009.

Simon Hull's doctoral research is on the design and testing of a framework to guide land administrators and policymakers involved in the development of cadastral systems. This includes land tenure reform. The framework is designed using a research synthesis methodology and tested and extended through progressive case study. Embedded within the framework are three interrelated goals of success, significance, and sustainability. The basic premise is that, for developments affecting customary land rights-holders to be successful and sustainable, the outcomes and processes need to be significant for the intended beneficiaries. The research draws on four case studies – Germany, the Netherlands, Mozambique, and South Africa – and addresses the current land reform issue for people living in the former homelands of South Africa.

Supervisor: A/Professor Jennifer Whittal (Geomatics)
Co-supervisor: Professor J-P van Belle (Information Systems)

In Materials Engineering:
Iosif Vazirgiantzikis
Thesis Title: *Investigation into the surface modification of Ti-6Al-4V to facilitate antimicrobial ionic silver integration for use in implantable orthopaedic devices*

Iosif Vazirgiantzikis completed his BSc (Chemistry and Polymer Science) at Stellenbosch University in 2013 and his BSc(Hons) in Materials Science at UCT in 2014. He began full-time study towards his MSc(Eng) in 2015, and upgraded to a PhD in 2017.

Iosif Vazirgiantzikis's thesis investigates methodologies for the incorporation of silver into a modified surface of titanium in order to facilitate an antimicrobial effect for use in orthopaedic implants. The methodologies investigated were: anodic oxidation of the titanium surface, followed by silver ion exchange; a novel process of using silver-doped dioxide particles fused to the surface of the titanium via anodic oxidation; and silver ion implantation into titanium with modified surfaces. The surfaces and

sub-surfaces were characterised using advance electron microscopy analysis and chemical techniques. The results show that silver can be successfully incorporated into the surface of titanium in both the as-polished and modified conditions, and that the silver release in simulated body fluid is such that 55-100% antimicrobial effect can be achieved in all cases. Iosif Vazirgiantzikis also identified a methodology that yields the best silver ion release, and offers tailorability of silver release and commercial scalability.

Supervisor: Dr S George (Mechanical Engineering)

Velile Nicholine Vilane
Thesis tittle: *Microstructure and tensile performance evolution during Titanium - 6 Aluminium - 4 Vanadium (Ti-6Al-4V) temporary hydrogen treatment*

Velile Vilane completed BSc(Hons) and MSc degrees in Materials Engineering at UCT. The knowledge acquired from the MSc research informed his PhD study on the temporary hydrogen treatment (THT) of the Titanium-6Aluminium-4Vanadium (Ti-6Al-4V) alloy.

Velile Vilane's thesis uses THT to refine the coarse-cast Ti-6Al-4V microstructure in order to improve its mechanical properties (strength and ductility). He investigated the effect of hydrogen on Ti-6Al-4V microstructure evolution during THT processing at imaging levels of down to atomic resolution. From this information, he observed that whilst temporary hydrogen treatment (THT) can significantly refine the coarse Ti-6Al-4V microstructure and improve strength, it also deteriorates ductility because alloyed hydrogen promotes precipitation of a brittle Ti3Al phase. As a result, he custom-designed THT processes to eliminate the associated Ti3Al embrittlement whilst retaining the improved strength. This thesis has significance in the manufacturing of Ti-6Al-4V components which are typically used in the aerospace industry. It shows that Ti-6Al-4V components can be manufactured using the cheaper alternative manufacturing route (casting), and their mechanical properties can be subsequently optimised using THT processing.

Supervisor: Professor RD Knutsen (Materials Engineering)
Co-supervisor: Dr JE Westraadt (Physics, Nelson Mandela Metropolitan University)

FACULTY OF HUMANITIES

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 Award.

The Orator will present Professor Jonathan David Jansen to the
Presiding Officer for the award of an honorary degree.

The graduands and diplomates will be presented to the Presiding Officer by the 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.)

DISTINCTIONS IN THE FACULTY OF HUMANITIES

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%.

THE UNIVERSITY BOOK AWARD

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);	*Sound from the Thinking Strings*
	S Watson (Arts); J Parkington (Arts) and N Penn (Arts)	
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*

THE UNIVERSITY BOOK AWARD (CONTINUED)

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*
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 Nattrass (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)	*The Archive of Willem Bleek & Lucy Lloyd*
	N Penn (Humanities)	*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 Nattrass (Commerce)	*The AIDS Conspiracy: Science Fights Back*
2015	S Shaikh (Humanities)	*Sufi Narratives of Intimacy*
2016	L Modisane (Humanities)	*South Africa's Renegade Reels:* *The Making and Public Lives of Black-Centred Films*
2017	D Chidester (Humanities)	*Empire of Religion: Imperialism and Comparative Religion*
2018	D Wardle (Humanities)	*Suetonius: Life of Augustus*

THE UNIVERSITY BOOK AWARD (CONTINUED)

The book award for 2019 is to be awarded to:

Anna Tietze

A History of the Iziko South African National Gallery: Reflections on Art and National Identity

A History of the Iziko South African National Gallery: Reflections on Art and National Identity (UCT Press, 2017) is the first full history of the Iziko South African National Gallery. It traces the gallery's fortunes from its inception in the 1870s to the present day and considers the formative influence on the gallery of successive directors and trustees, as well as governments, showing how these have shaped its collection and exhibition policies.

A core aim of the book is to consider how national galleries understand their purpose – what is it to be *national*, what is it to be an *art* gallery? The question of the *national* is considered throughout the text, where it is shown that, historically and across the world, national galleries have often - paradoxically given their title - avidly collected art from outside their borders. In the book, South Africa's gallery is situated within this historical context. Against the backdrop of current decolonial debate, the question of whether a national gallery serves primarily to represent the nation's art or showcase that of an international art world becomes a pressing one.

The consideration of what it is to be an *art* gallery gives rise to a discussion of the debates concerning art's boundaries – be they with so-called 'popular' art, with craft objects, with objects of design. This study examines how the gallery has grappled with these issues over its history, and particularly in recent years as it has sought to expand its constituency. The conclusion to the book proposes a bold foundational analysis of the role of a national gallery in a rapidly-evolving nation such as South Africa. And, cognisant of the recent establishment of the Zeitz Museum of Contemporary Art Africa, it considers how the two institutions might best complement each other into the future. Described by reviewers as "a quality study that ought to be read by anyone with more than a passing interest in galleries and museums" and a study of "impeccable archival research… and handling of contentious issues", this publication aims to uncover the often unspoken policies and politics of a public art institution.

THE UNIVERSITY CREATIVE WORKS AWARD

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.

Andrew Lilley

'Brother Gone'

Brother Gone comprises original compositional works recorded for jazz septet. The project came about through various collaborations with the Arts Foundation in Sweden. Swedish jazz musicians have strong roots in the Afro-American jazz tradition and this resonates with the South African context where the style of jazz music is also heavily influenced by this tradition. Key innovators like John Coltrane and Thelonious Monk became powerful influences in modelling some of our greatest players like Abdullah Ibrahim, Winston Mankuku and Bheki Mseleku.

The title track of the album speaks directly to this lineage, making reference to the collective brotherhood in jazz and to those who have passed (gone), their legacies carried forward to produce something new. Titles like 'Epilogue' and 'Dedication' speak for themselves and 'Home Roots' particularly taps into that aspect of the heritage, which finds its origins in the rhythms of Africa. 'Song for Bheki' is written for South African pianist Bheki Mseleku whose contribution to South African jazz music is extensive. The compositions on the album have attracted international status with 'Song For Bheki' being awarded finalist for the original song in the 21st Annual USA Songwriting Competition (2016).

Recording a project of this nature requires much time and significant funds. The final release is a product of a multi-staged process in which the actual recording (the artistic moment) is only one part of the final artistic product. The music is typically written and composed over a period of time and performed as part of the creative and explorative improvisatory expression in jazz. The manifestation of the recording sets in stone a particular version of the material, bearing in mind that there is extensive collective improvisation within its structure, as this is the primary nature of the music. The compositions themselves stand outside the actual recorded project and continue a life of their own. It is in the performance of the music that the real art takes place.

THE UNIVERSITY CREATIVE WORKS AWARD (CONTINUED)

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.

Dizu Plaatjies

Ubuntu – The Common String'

Associate Professor Dizu Plaatjies is a lecturer in the African Music section of the South African College of Music. He has an international reputation as performer, teacher and intrepid researcher of his African heritage. He regularly performs and gives masterclasses worldwide in Europe, the Middle East, the Americas and Australia and has an extensive track record as a creative artist, which includes the publication of over 40 albums, both solo and collaborative.

The multiple award-winning album *Ubuntu – The Common String* is a CD publication in which Dizu Plaatjies, as arranger-songwriter and solo performer on a wide range of traditional African instruments, discretely blends his artistry with that of younger friends, who contribute to the album with a unique blend of vocals, guitar, percussion and horns. The result is 11 tracks of performances embracing a mixture of styles and inspirations from traditional, pop, rock, reggae and jazz, yet carrying the unmistakable stamp of Dizu Plaatjies' Mpondo roots.

Described in the media as a seminal work, it has been variously praised for its embracing yet cohesive sweep of musical genres, and the reflective social conscience of its songs. Within a month of its publication in November 2015 it reached and remained in the top ten of the Transglobal World Music Charts (for three months) and was subsequently included in its list of the best of 2015.

Ubuntu – The Common String marked a new departure in Dizu Plaatjies' output, who, in the preceding decade had focused his efforts on the preservation of the vanishing music of the older generation of Xhosa musical bow players and vocalists. Recognising the need for generational dialogue, *Ubuntu – The Common String* is a conscious attempt to close the gap between the traditional and the contemporary by creating a music album that could jump across the divergencies of current musical genres. This attempt to place the music of his roots in the context of pan-African, popular and world music inspirations is what makes the album distinctive. That Dizu Plaatjies was successful in this pragmatic goal is borne out by the fact that a peer-reviewed South African body, the SA Music Awards, voted the CD as Best African Adult Album, at the same time as the prestigious British Songlines Magazine selected *Ubuntu* as a Top of the World Album. That these two bodies with very different industry criteria were concurrently attracted to the same album speaks volumes.

Ubuntu – The Common String, both forward-looking and retrospective, is a work that shows that Southern Africa's older musical traditions are relevant on the global world stage and by example forges a way for a new generation of African musicians.

HONORARY DEGREE

Jonathan David Jansen

DEd (honoris causa)

Professor Jansen graduated from UWC with a BSc in 1979, following which he pursued a career first in science at secondary school level, later as a university researcher in curriculum studies, and further as a university leader and influential public commentator on education in South Africa. His doctorate is from the Graduate School of Education at Stanford University, and he is currently a distinguished professor in the Faculty of Education at Stellenbosch University. His scholarly output is prolific, and demonstrates both his attention to engaging with praxis, and to caring about living a critically engaged life.

As the first black Dean of Education at the University of Pretoria, and the first black Rector at the University of the Free State (UFS), Professor Jansen rose to prominence by inserting a thoughtful voice into national debates on both school and higher education, and on racial reconciliation and social transformation. At some personal cost, he held to a reconciliatory approach at UFS to the leadership challenge presented by the race-based dysfunctionality at the institution at the time. In avoiding a push for retribution, he chose instead to build bridges and facilitate communication among students who had come to think of themselves as intractably in opposition.

Since his early period as a high school teacher, through to the present day, Professor Jansen has been acutely aware of the need to improve education at all levels. He has been dedicated towards encouraging "courageous conversations" on what the state should do to advance education, what the public can do to hold the state to account, and what each person can do to understand better the complexities of living in a fractured and mistrustful society. As part of this, he has made his academic work relevant to the community at large through frequent columns, numerous books for public audiences, and the generous use of his time in giving public talks and working for the betterment of South African education through membership of various professional boards and charities.

Role models who demonstrate that it is at least possible to overcome adverse circumstances and become an international thought leader, and a transformative voice in society by pursuing one's academic aspirations, are rare and deserving of recognition. In South Africa, it is difficult to think of a scholar who has done more to effect public thought and debate on social justice in education than Professor Jansen has. In showing how one can use academic knowledge and authority in the service of transforming lives, he offers us an exemplar for the public intellectual, and is thus deserving of recognition from UCT in the form of an honorary doctorate.

NAMES OF GRADUANDS/DIPLOMATES

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

1. FACULTY OF HUMANITIES

Dean: Associate Professor S Kessi

DIPLOMA IN DANCE EDUCATION

Robyn Ashlee Pokpas

POSTGRADUATE CERTIFICATE IN EDUCATION

In Intermediate Phase Teaching:
*Nontsikelelo Tricia Dyani
Yamkela Mbombo

In Foundation Phase Teaching:
Robin Toni Abrahams
Abigail Ann Chetwin (with distinction)
*Ayeesha Daniels
Saleehah Domingo
Monet Kiara Du Plessis (with distinction)
Nosiphiwo Dwatyana
Cheney Firman
Alex Lindsey Fortune
Nicole Gammie
Rebecca Jane Gore (with distinction)
Meghan Toni Hawken (with distinction)
Olivia Amanda Jonsson
*Kwakwadi Maditsi
Abigail Thalia Mallows (with distinction)
Chantal Ann Manton
Lee-Ann Jane Mentoor
Li-Asia Jaydri Noble
Trulene Geneveve Olifant
*Megan Desiree Parker
Francis Searle
Jesse-Mari Solomons (with distinction)
Athrah Sedick Stemmet
*Emma Margaret Stevenson
*Hannah Karunya Sunpath
Stacey Jade Titus
Tuleka Tose
Nicole Dominique Brousse Winter (with distinction)

In Senior Phase and FET Teaching:
Amy Joy Abrahams
Bronwyn Leaicia Adams
Faith Mercia Adonis
Amy Agulhas
Nabeelah Ajam
Michaela Angilica Alexander
Hannah Allderman
Dhiven Appalraju (with distinction)
Ilhaam Ariefdien
Darren James Authers
Ashleigh Paige Bayman
Colyn Jon Bourhill
Lauren Bruce
*Codi Carelse
Chia-Tung Joy Chen
Christina Christofidi
Chante Lenora Classen
Rouzanna Robyn Sabrina Coxson
Logan Annie Croeser
Andrew Douglas Ian Dare
Michelle Nicole Day
Liam Laurens Thomas De Meulemeester (with distinction)
Mikhayla Dennis
Neziswa Dlayedwa
Casey James Doddemeade
Emma Alexandra Du Toit
*Anees Ebrahim
Christopher Rudolf Engel
Meaghan Frances Farr
Jodie Hannah Felix
Bernelee Bea-Trish Dorian Fortuin
Saeedah Fredericks
Monn-Lee Geduld
Kirsten Leigh George
Gabrielle Ginn
*Christelle Grimbeek
Lia Mary Hall
Abul-Qalam Hamdulay
*Jolandi Hanekom
Franklin Oliver Hanslo
*Alasdair Stanley Harris
Jemima Grace Hart (with distinction)
*Jonathan Nicholas Hayes (with distinction)
*Cassandra Evelyn Alison Hendricks (with distinction)
Carla Louise Hockey
Cameron Cornel Hofmeester
Nasreen Hoosain
*Asif Isaacs
Jordan Emma Jooste
Siseko Jacqueline Jukuda
Devon Ian Keys
*Dineo Teresa Khasu
Masixole Khewana
*Alastair Rowan Kingon (with distinction)
Siyabonga Thomas Kruger
Toheerah Leukes
*Tanya Lippert
Rigan Lubinsky
Roseanne Maakana
Emilie Michelle Alice Maeda
Thabo Malatji
Bulumko Mapuza
Athena Hazel Martin
Mawande Mayekiso
Siyabonga Mbobo
Lauren Joy McDonald
*Byron Joseph Mckellar
Katharine Rebecca Meinert (with distinction)
Tia Mesias
Belle Miller (with distinction)
Amanda Mkehle
Asandiswa Msutu
*Noluthando Pamela Mtati
Amy Theresa-Ann Murray
Rhiannon Catherine Murray
*Presley Ncube
Chumisa Ngubo
*Nozipho Fiona Nkonki
Wesley Norman
*Tara Louise Notcutt
Simone Nadine Ohlson
Sarah Georgina Osborn
Sixeko Pakade
Zintle Zimkhitha Ziphelele Mthakazi Phandle
Shameez Phillips
Eidanne Henzal Poole
Olda Matapa Ramaphoko
Shriya Ramjee (with distinction)
Talia Ramkilawan
*Lauren Ramsay
*Isabel Frances Ritchie
Kendal Jade Rowley (with distinction)
*Siyamthanda Sakati
*Carmia Schoeman (with distinction)
*Natalie Sher
Andisa Mvulazana Siswana
Nomthandazo Sitsheke
*Jodie Lee Smith
Zolani Sophethe
Carla Natasha Stokes
*Jane Elizabeth Swingler (with distinction)
Nuha Thebus
Patricia Suzanne Thys
Kayo-Fay Tilley
*Holly Michelle Tucker

Joshua James Turnbull (with distinction)
Jana Van Reenen
*Ben Neil Van Wyk
Ricardo Vasapolli
Kiare Villet
*Nicolas Vlok
Ruo-Yu Wang
Melissa Letitia Wentzel-Brache
Ntutuzelo Xalabile
Mfundo Cryly Zono
*Mlandeli Siphelele Ernest Zosiwe

In FET Teaching:
Caitlin Basson
*Katharina Berner
Erin May Erasmus
*Keegan Antoni Goddard
Kelly Groenmeyer
Caitlin Hawarden
Liam Christopher Josephs
*Christine Perpetua Latchiah
Sthembiso Mbhekiseni Mgenge
Sinaye Mpokela
*Grace Elizabeth Newton
Kuhle Riti
Caitlin Schreuder
Sarah Wallace
Cebolenkosi Siphesihle Zuma

POSTGRADUATE DIPLOMA IN AFRICAN STUDIES

*Alizwa Mnyatheli
Motlalepula Cathy Phukubje

POSTGRADUATE DIPLOMA IN EDUCATION

*Lily Eileen Goodman
*Alvin Barry Haupt
*Aaiesha Jacobs

POSTGRADUATE DIPLOMA IN HIGHER EDUCATION STUDIES

Jaimie Marie Corbishley (with distinction)
Keenan Peter John Hendrickse

POSTGRADUATE DIPLOMA IN LIBRARY AND INFORMATION STUDIES

*Mluleki Ncube

POSTGRADUATE DIPLOMA IN MUSIC IN PERFORMANCE

*Ryan Frank Kierman
Lance Thuynsma

DEGREE OF BACHELOR OF ARTS

Jamie Robert Treharne Bowes
Jamie Nicholas Conrad
*Sidra Davids
Qaqamba Bomkazi Precious Filtane
Andrea Jocelyn George
Joshua Sean Ilbury (with distinction in Film and Television Studies)
Cindy Jarvis
Samuel Edward Kelly
Jenna Marinus
Caitlin Bianca Mathey
Khanyisile Khutso Modiba
*Elisha Alum Mpofu
*Naseemah Pandor
Stephanie Anne Rutherford
Nadia Van Der Schyff
Shuaib Van Der Schyff
*Luella Vraagom

DEGREE OF BACHELOR OF ARTS IN FINE ART

*Suné Smit

DEGREE OF BACHELOR OF MUSIC

*Alexander Gustav Ivan Mayers (with distinction in Jazz Ensemble)
Benjamin John Racionzer

In Dance:
Avuyile Sidloyi (with distinction in African Dance Practice)

DEGREE OF BACHELOR OF SOCIAL SCIENCE

Souraya Ismael Affejee
Emelia Aggouras
Jody Dillon Arendse
Manish Sharma Beedasy
Jessica-Joy Capstick-Dale (with distinction in Gender Studies and Sociology and the degree with distinction)
Miguel Valentino Espinha
Bridene Ambre Esterhuizen
Layla Hildebrand
Elif Isabella Ilhan
Kelly Karen Josiah
Dillon Jurgen Joubert
Bybit Kanengoni
Tatenda Michelle Kugotsi
Nadzeya Kukauka
Wesley Jason Lesch
*David Matthew Long
Lungelo Tukello Nomusa Mahlangu
Rose Lukuni Majivuno
Lindiwe Malumbazo
Sriya Mansingh
Thandokazi Matiyase
Gideon Gebra Mduma
Ezra Phegello Mokgope
Sthandazile Moyo
Tamika Mtegha
*Leonard Celestine Muganga
*Rutendo Zvikomborero Martha Muzwidzwa
Akhona Junior Mzwempi
*Mgcini Ndlovu
Tinashe Ashleigh Nduku
Busisiwe Ngwenya
Minenhle Nkosi
Athabile Nonxuba
Tonderai Nyasha Itai Nyakauru
Lindokuhle Neville Patiwe
Hlengiwe Zizipho Qwesha
Megan Chelsea Ryan
Tevya Turok Shapiro
Khanya Danielle Sidzumo (with distinction in English Language & Literature)
*Tshepang Seipati Tshabalala
Nonzaliseko Twetwa
*Anton Martin Van Loggerenberg

DEGREE OF BACHELOR OF SOCIAL WORK

Hannah Flori Lubner
Hazel Mutandiko

DEGREE OF BACHELOR OF ARTS (HONOURS)

In Curatorship:
Anelisa Mangcu
*Nondumiso Queeneth Nzama

In Film and Television Studies:
Alexandra Serena Gillespie Hodge (first class)
Tiisetso Lintle Mohapi (first class)

In Media Theory and Practice:
*Nasreen Badrodien
*Johanna Maria Hoess (first class)

In Organisational Psychology:
Koketso Mampane

In Philosophy, Politics and Economics:
*Taonaishe Kevin Magaisa

In Politics:
Khanyisile Nonkululeko Mngadi

DEGREE OF BACHELOR OF EDUCATION (HONOURS)

Shannen Pamela Buys
Christopher Donald Du Plessis
Ronaldo Jean-Louis
Loyiso Mashawa

DEGREE OF BACHELOR OF MUSIC (HONOURS)

In Performance:
Gyu-Min Kim
*Petra Lee Van Besouw

DEGREE OF BACHELOR OF SOCIAL SCIENCE (HONOURS)

In Development Studies:
*Tildah Millia Gatsi

In Gender and Transformation:
*Nasiphi Nomonde Gwiji
Phumza Khwezilomso Qwaqwa

In Industrial Sociology:
*Kate James (first class)
*Roben Chelsea Josias

In International Relations:
*Ndyebo Senkosi Mapekula
Yenziwe Nhlabatsi
Phumla Tembe

In Organisational Psychology:
*Nozipho Naomi Makhathini

In Political Communication:
Ruby Ruvimbo Chikwiri (first class)
*Jodi Lee Dreyer

In Politics:
Namhla Magwaca
Masixole Mlandu

In Psychology:
*Devarna Kaylyn Booysen
*Lwazi Ntsika Shwala

In Religious Studies:
Naazneen Sheik

In Social Anthropology:
*Chiedza Thelma Gonyora

In Social Development:
Sibahle Vuyolwethu Melane
Shaafie Ntalika Zubeir

In Social Policy and Management:
Litha Lethu Phika

In Sociology:
*Kelvin Mudziviri Kamwendo

DEGREE OF MASTER OF ARTS

In Afrikaans:
Heloise Fourie (with distinction)
Emma Kotze
Johannes Theodorus Vermaak

In Anthropology:
*Patricia Marianne Johnson-Castle (with distinction)

In Clinical Psychology:
Joanie Marie Mitchell (with distinction)
Malini Mohana
Candice Siobhan Nicolo

In Creative Writing:
Lucienne Pallas Bestall (with distinction)
*Lyndall Mary Cain (with distinction)
*Tracey Ellen Evans
Dela Buhle Gwala
Kerstin Hall (with distinction)
Benedikt Sebastian Jordaan
Ruby Parker (with distinction in the dissertation)

In Documentary Arts:
*Tzu Ting Hsu (with distinction)
Sophie Elizabeth Patch
Kimberley Jade Rai (with distinction in the dissertation)
*Mary Elizabeth Tither (with distinction)

In Dramaturgy:
*Jayne Susan Batzofin (with distinction)

In Environmental and Geographical Studies:
*Michelle Nott (with distinction)

In Film Studies:
*Abigail Elaine Edwards (with distinction)

In French:
Helen Druce (with distinction in the dissertation)

In Historical Studies:
*Khaya Miles Adams
*Esma Karadag (with distinction)

In International Relations:
*Tim Siemen Leenstra

In Language, Literature and Modernity:
Ethrésia Coetzee (with distinction)
*Londiwe Gamedze (with distinction)
Alice Ishbel Sholto-Douglas (with distinction)
Luke James Watson (with distinction)

In Linguistics:
Thandiwe Ida Goxo
Naasirah Mohamed
*Mpho Maboitumelo Melita Semethe
*Ahmed Sosal Altayeb Mohammed Ali (with distinction in the dissertation)

In Media Studies:
Amanda Karen Speechly

In Media Theory and Practice:
Garret Farmer-Brent
Octavia Nolizwi Magwagwa
Chisanga Mukuka (with distinction)

In Philosophy:
Mats Wenzel Elliott (with distinction in the dissertation)
*Aaron Jacobs (with distinction)
Travis Wade Rebello (with distinction)

In Psychological Research:
*Kara Engelbrecht (with distinction)
Loren Ann Joseph (with distinction)
Marilyn Toni Lake (with distinction)
Ruth Urson (with distinction)

In Religious Studies:
Beatrice Akuvi Hosen Kumordzie
*Gaelin Meyer (with distinction)

In Sociology:
Adrian Shaun Badminton

In Theatre and Performance:
Linda Makgabutlane
Lulama Vuyani Masimini

DEGREE OF MASTER OF ARTS IN FINE ART

Mawande Ka Zenzile

DEGREE OF MASTER OF ARTS IN NEUROPSYCHOLOGY

Kirsty Carter (with distinction)
Coenraad Jacobus Hattingh (with distinction)
*Catherine Jane Masson (with distinction in the dissertation)
*Lydia Wepener (with distinction)

DEGREE OF MASTER OF EDUCATION

In Adult Education:
Janice Deidre Erasmus
Margaretha Jacoba Erasmus (with distinction)

In Applied Language and Literacy Studies:
Bernice Zelda Adonis
Babalwayashe Molate (with distinction in the dissertation)

In Education Policy, Leadership and Change:
Ashley Craig Visagie (with distinction)

In Educational Technology:
*Heinrich Prinsloo (with distinction in the dissertation)

In Higher Education Studies:
Lara Tracey Karassellos (with distinction)
Nozuko Princess Mbutho (with distinction in the dissertation)

In Primary Education:
Simone Loedolff
Helene Louise Rousseau

DEGREE OF MASTER OF LIBRARY AND INFORMATION STUDIES

*Maria Madgalena Muulinawa Aipinge
*Lianda Coetzer
Liina Kamenye
Belinda Muzimbwa Mbanga
Mpho Netshiongolwe
Stella Emade Ngeh
Christel Oosthuizen (with distinction in the dissertation)
Anthea Paulsen

DEGREE OF MASTER OF MUSIC

In Music (Dissertation and Coursework):
Rashid Epstein Adams
Engela Helena Britz (with distinction)

In Music (Dissertation and Performance):
Ernie Nathi Koela
Carika Smit

In Dance (Dissertation):
*Ilona Margaret-Rose Frege

DEGREE OF MASTER OF PHILOSOPHY

In African Studies:
Minga Mbweck Kongo
Yoni Undine Pakleppa (with distinction)
Amira Laila Rasool

In Development Studies:
Kristin Bartlett
Tafadzwa Dzingwe
Shuvai Tendai Finos
*Nicholas Stavros Manolagas
Carol Rebecca Masingi
Wendy Petersen

In Digital Curation:
Frances Ellen Gillis-Webber (with distinction)
Astridah Samupwa

In Environmental Humanities:
*Terena Ashley Koster (with distinction)

In Justice and Transformation:
Tessa Assies
Robynne Botha (with distinction)
Penohole Brock
*Ruth De Freitas
*Matthew Augustus Fremantle Hill (with distinction in the dissertation)
Nora Bye Løken
Gerald Arthur Moore
Priscilla Thindwa
Katie Sophia Trippe (with distinction)
Wian Brandt Verwoerd

In Library and Information Studies:
*Elizabeth Margaret Moll

In Public Policy and Administration:
Sikho Akhona Luthango (with distinction)

DEGREE OF MASTER OF SOCIAL SCIENCE

In Anthropology:
Anna Stephanie Drinka (with distinction in the dissertation)
Sonwabiso Ngcowa (with distinction in the dissertation)
Robyn Danielle Swannack

In Clinical Social Work:
*Georgina Lydia Atkins
Alicia van Vuuren
Tasneem Variawa
Rachel Geraldine Williams

In International Relations:
Emmanuel Ampomah
Victoria Megane Manon Assenza (with distinction in the dissertation)
Saskia Bleher (with distinction)
*Ida Titlestad Dahlback
Phillip Dürner
Hector Leandro Manini
Anjola Oluwa Ogunrombi (with distinction)

*Louise Lillie-Anne Ovner

In Organisational Psychology:
*Natalie Katharina Marcella Witschel (with distinction in the dissertation)

In Politics:
*Christopher Kiernan
Heidi Emberland Ulla

In Probation and Correctional Practice:
Ashleigh Nicole Ross

In Psychology:
Toni Carmen Faith Ross (with distinction)

In Social Development:
Sarah Okedi Birungi
Jessica Elizabeth Blom
Joshua Covenant Chigome
Chanel Catherine Fredericks
Katherine Georgina Storr Lister
Esther Clare Sampson (with distinction)
*Olga Simanga
Bertha Miyanda Simuyandi
Benson Tatenda Siyawareva
Lindsey Godfrey Thomas
Lovemore Vushe

In Social Policy and Management:
Moroesi Malebo
Jetara Ross (with distinction)

In Sociology:
*Courtney Loree Hallink (with distinction)
Danielstar Omondi Okeyo

DEGREE OF DOCTOR OF PHILOSOPHY

In Drama:
*Heeten Himat Bhagat
Thesis Title: *Speculative indigeneities: a [k]new now*

Heeten Bhagat completed a BA at The American College in London and an MA in Audio Visual Production at London Metropolitan University. He had an extensive career in arts, media and performance in Zimbabwe before joining UCT's Centre for Theatre, Dance and Performance Studies in 2016 for his PhD studies.

Heeten Bhagat's thesis comprises an interdisciplinary investigation that journeys through history, anthropology, performance studies, speculative research and queer studies. It begins with an unwieldly question – what would Zimbabwe look like if colonisation hadn't happened? From this provocation he investigates indigeneity as both a performance and a register of post-colonial independence. He uses the legislation of indigenousness, as expressed in Zimbabwe's Indigenisation and Economic Empowerment Act, to execute a close reading of performances at Harare's 2017 Independence Day ceremony. Having recognised both pride and paradox in displays there of cultural indigeneity, he investigates indigeneity's homogenous nature. Combining a contemporary reading of culture and indigeneity with a creative project using mixed media and performance, he builds a rationale for the embodied multiplicity of polygeneity. He uses this to demonstrate a way to revive notions of dynamism and creativity that have lain dormant since the onset of European colonisation.

Supervisor: A/Professor J Pather (Centre for Theatre, Dance and Performance Studies)
Co-supervisor: Dr R Sitas (African Centre for Cities)

Sanjin Muftic
Thesis Title: *The Poetics of Planetary Theatre: Image and Bricolage*

Sanjin Muftić, born in Sarajevo, holds degrees from Bishop's University, Québec, and the University of Cape Town. He lived in Ethiopia and Canada, and now resides in Cape Town, having been a director, lecturer and a digital video editor. He works as a Digital Scholarship Specialist at UCT Libraries.

Sanjin Muftić's thesis develops a poetics on the way in which images work in the devising and performance of theatre. He understands theatrical images as a means of intercultural or planetary communication that, in the process of exchange, leave an imprint on performers and audience members. Further shaped by his experience as a migrant he applies the theory of bricolage, that of using pre-existing images to make creative work in theatre. In this way, he argues, participants and audience become part of the devising process that expresses, shares and explores their views of the world. He aligns this process as a practical application of Gayatri Spivak's notion of the planetary and thus, as a theatre-maker, establishes an image-driven dramaturgy.

Supervisor: A/Professor V Baxter (Centre for Theatre, Dance and Performance Studies)
Co-supervisor: Professor M Fleishman (Centre for Theatre, Dance and Performance Studies)

Meghna Singh
Thesis Title: *Visualising human migrations in Cape Town: the story of three ships through 'time', 'space' and 'memory'*

Meghna Singh holds a BA in Politics from the University of Delhi, an MA in Mass Communication from Jamia Milia Islamia, New Delhi and a second MA in Performance Studies from the University of the Arts, London. She is a practicing visual artist based in Cape Town.

Meghna Singh's thesis focuses on the use of contemporary art practice

as a tool for furthering research in the field of migration studies as well as to provide models for the experience of this research. Focusing on the theme of contemporary and historical migrations in Cape Town, her thesis showcases research conducted on three ships between 2013 and 2017. She investigates the theme of migration through the lens of 'time', 'space' and 'memory', presented via the creation of video installations. She shows how the medium of observational filmmaking and the creation of immersive video installations create visibility, empathy and an understanding of situations through corporeal embodiment, adding both to the fields of visual art and migration research.

Supervisor: A/Professor J Pather (Centre for Theatre, Dance and Performance Studies)
Co-supervisor: A/Professor N Shepherd (Aarhus University)

In Education:
Thabisa Mayisela
Thesis Title: *First-year higher education students' acquisition of digital content creation literacies in discipline-specific settings*

Thabisa Mayisela holds Master's in Education from Rhodes University. She registered for her PhD studies with UCT's School of Education in 2012. Before joining UCT's Centre for Innovation in Learning and Teaching, she was a lecturer and instructional designer at Walter Sisulu University.

Thabisa Mayisela's thesis reports on first-year higher education students' acquisition of digital content-creation literacies in their discipline-specific settings. She adapts Ng's (2015) digital literacy framework to categorise students' technical, cognitive and social-emotional digital literacy practices. She complements the analysis through using Engeström's (2001) second generation Activity Theory Framework to identify socio-cultural factors influencing students' digital literacy practices in discipline-specific contexts. She shows that students' digital literacy practices at high school notably influence their digital content-creation practices at university. She also shows how students acquire literacies to create, individually or collaboratively, digital content in different ways depending upon disciplinary requirements. A key finding of her research is that discipline-specific learning and assessment activities drive students' acquisition of their digital literacies, and that this consequently places responsibility on lecturers to annually review first-year students' prior digital literacy skills and practices in order to inform themselves regarding students' responsive adaptation of learning and assessment activities.

Supervisor: A/Professor C Hodgkinson-Williams (Centre for Higher Education Development)
Co-supervisor: A/Professor C Brown (University of Canterbury)

In Environmental and Geographical Studies:
Jeremy David Gorelick
Thesis Title: *Municipal bonds in sub-Saharan Africa: the checkered past of debt instruments in an era of incomplete decentralization*

Jeremy Gorelick completed his BA and MA in international economics, with a focus on emerging markets, at the Johns Hopkins University. He has consulted on financial issues in sub-Saharan Africa since 2010 He began his PhD studies at UCT in 2016.

Jeremy Gorelick's thesis examines opportunities and challenges facing cities across sub-Saharan Africa in their efforts to raise funds for infrastructure projects. He deliberately focuses on governance and decentralisation in the African context. He specifically reviews the experiences of the cities of Johannesburg, Douala, Dakar and Senegal and he highlights a mix of successful municipal bond transactions, which raised significant financing for urban development, and failed transactions that faced obstacles driven by political issues and clashes between central and local governments. Jeremy Gorelick's findings will inform politicians, economists, and other key decision-makers when they consider innovative ways to encourage the flow of money for city-wide development in sub-Saharan Africa.

Supervisor: Emeritus Professor S Parnell (Environmental and Geographical Sciences)

In Fine Art:
Carine Zaayman
Thesis Title: *Seeing what is not there, figuring the anarchive*

Carine Zaayman holds a BA(FA) from the University of Pretoria and an MA from the University of the Witwatersrand. She joined the Michaelis School of Fine Art at UCT as a lecturer in 2003. Her thesis research has been supported by the Centre for Curating the Archive and by UCT's Archive and Public Culture Initiative.

Carine Zaayman's thesis examines the demands on archives to produce more information than they contain. These demands are seen as sites of invention and imagination – often in the interests of producing counter colonial narratives. In contrast, the thesis argues, paying attention to all of what is not there enables us to grasp something of the significance of absence in its own right – an absence that is named the "anarchive". Carine Zaayman examines the archival presence of two women, Krotoa, a Goringhaicona woman who acted as interpreter between the Dutch and the Khoekhoe in the early colonial period at the Cape, and Anne, a Scottish noblewoman who lived at the Cape from 1797-1802 in the light of this anarchive. Using art visual art methodologies, her thesis figures the anarchive, sharply delineates the limitations of archives and renders implausible their ability to control our understanding of the past.

Supervisor: Professor P Skotnes (Michaelis School of Fine Art)
Co-supervisor: Professor C Hamilton (Historical Studies)

In Linguistics:

*Sarifa Moola-Nernæs

Thesis Title: *Cultural and language maintenance and shift in an immigrant African community of KwaZulu-Natal: the Zanzibaris of Durban?*

Sarifa Moola-Nernaes holds a bachelor's degree from the University of South Africa and a master's degree in Peace Studies from the University of Bradford. A former resident of Durban, she is now employed as a Refugee Coordinator in the Municipality of Fusa in Norway.

Sarifa Moola-Nernaes's thesis focuses on language and cultural issues pertaining to the Zanzibari community in Durban. The community has continued to use the Makhuwa language of Mozambique since 1875, when their ancestors were freed by the British from intended slavery off the coast of Zanzibar. The thesis examines the extent to which the Makhuwa language and culture survives in an environment where English and isiZulu are the dominant languages. It finds that Islam is an important factor in cultural maintenance. While members of the community have managed to keep Makhuwa alive as a spoken language for over 140 years, the thesis survey shows growing signs of shift among younger members.

Supervisor: Professor R Mesthrie (African and Gender Studies, Anthropology and Linguistics)

In Media Studies:

Delta Lau Milayo Ndou

Thesis Title: *"According to social media…" Examining the influence of social media on political reporting within Zimbabwe's mainstream media*

Delta Ndou holds a BA in English and Linguistics from University of Zimbabwe and a Master's in Gender and Media from the University of Sussex. She was a media executive in Zimbabwe before joining UCT's Centre for Film and Media Studies in 2015 for her PhD studies.

Delta Ndou's thesis focuses on the influence of social media on political reporting within Zimbabwe's mainstream media. She aims to evaluate the democratising potential of the Internet in a polarised media context. She traces the social media sourcing patterns of four daily newspapers over a 30-month period and examines 146 stories to identify factors that influence sourcing. She uses interviews with editors to apprehend how their newsrooms adopt technology, then uses Actor-Network Theory as a method to foreground technological objects as silent actors that contribute to news work. She demonstrates that the presence of the Internet does not automatically transform or democratise news-sourcing practices and that mainstream media continues to prioritise partisan elite voices, using social media sources to maintain rather than transform the existing polarised context. She contributes to scholarship on the limits of the Internet's democratising potential by demonstrating how human actors can blunt social media's influence on political reporting.

Supervisor: A/Professor W Chuma (Media Studies)

Chikezie Emmanuel Uzuegbunam

Thesis Title: *The digital lifeworlds of young Nigerians – exploring rural and urban teens' practices with, and negotiation of, digital technology*

Chikezie Uzuegbunam completed his Diploma, BSc and MSc in Mass Communication at Nnamdi Azikiwe University, Nigeria, where he was also a lecturer until 2016 when he took up doctoral studies at UCT.

Chikezie Uzuegbunam's thesis investigates the digital lifeworlds of rural and urban thirteen- to eighteen-year old teenagers from a specifically Nigerian, and broadly African perspective. He argues that children and young people's practices with technology in the global North is well researched and documented. By contrast, research focusing on their counterparts in Africa is still largely limited and exploratory; and the field underdeveloped. Privileging the use of a mixed-methods approach, he conducted his study through using focus group discussions and surveys of teenagers sampled across Nigeria's major geopolitical zones. Framed by the new sociology of childhood research tradition and the domestication framework by Silverstone, Hirsch and Morley (1992), Chikezie Uzuegbunam's thesis provides a multi-layered portrait of the ways in which Nigerian children constitute their digital lives, their perceptions of and outcomes with technology, as well as how they negotiate power relations with digital gatekeepers and institutional actors such as parents, guardians, and teachers.

Supervisor: A/Professor T Bosch (Film and Media Studies)

In Music:

Annien Shaw

Thesis Title: *The Spohr fingering principles as manifested in his Violinschule*

Annien Shaw holds a BMus(Hons) in Solo Violin and a MMus in Chamber Music from the University of Stellenbosch. She was awarded a Postgraduate Diploma in Solo Performance by the Royal Northern College of Music and a Fellowship by the Royal Schools of Music. Her doctoral studies were supported by a NIHSS doctoral scholarship.

Annien Shaw's thesis, which complements a creative component comprising four chamber music recitals, determines the fingering principles of Louis Spohr that would manifest itself in a violinist if his Violinschule was applied as a tutor. The principles are manifested in the order of the skills and techniques a student would obtain through practising the exercises given within the Violinschule. Through a series of analysis and comparisons, the underlying hierarchy of Spohr's fingering principles are established. The study concludes that Spohr's role with regard to three of the contributing factors to the development of violin fingering was not as significant as originally thought and not with the expected or long-lasting results. Further, Annien Shaw's thesis shows that Spohr's invention of the chin rest had no immediate effect on his own fingering methods or that of his students.

Supervisor: Professor R Sandmeier (South African College of Music)
Co-supervisor: Professor F Bacharova (South African College of Music)

In Political Studies:
Bianca Naude
Thesis Title: *State personhood and world politics: a personology of the South African state*

Bianca Naude holds a BA from the University of South Africa, a Master's of Human and Social Sciences from the University of Lyon and an MA from the European Institute in Nice, France. She has been lecturing in political studies at the University of the Free State since 2015.

Bianca Naude's thesis investigates South Africa's relationships with other states in the international system. She focuses specifically on how the state perceives its external reality. Her analysis of South African foreign policy discourses explores the emotions that the state experiences in its interactions with other states, and how these emotions cause the state to perform certain actions. Employing insights from the field of psychology, she finds that South Africa's historical experience of being a European colony causes the state to engage in acts of resistance against Western dominance in global politics and to simultaneously attempt to construct a parallel world of South-South solidarity and cooperation. Her analysis further reveals that South Africa's reactions to NATO's intervention in Libya, and the state's threats to withdraw from the International Criminal Court, are narcissistic defences designed to protect its fragile ego from the humiliation of peer criticism.

Supervisor: A/Professor K Smith (Political Studies)

In Psychology:
*Jarred Hugh Martin
Thesis Title: *Trans-corporeal bodybuilding: an exploration of the trans-corporeal relations between South African competitive male bodybuilders and their more-than-human world(s)*

Between 2006 and 2010 Jarred Martin completed his BSocSc (Psychology), BSocScHons (Psychology), and MSocSc (Clinical Psychology) at the University of KwaZulu-Natal. In 2013 he joined UCT to begin his PhD studies, during which he served a year-long tour of duty in the Democratic Republic of the Congo as member of the South African National Defence Force.

Jarred Martin's thesis offers a feminist-inflected posthumanist exploration of the interrelationships between gender, masculinity, and the materialities of muscle in the subculture of men's competitive bodybuilding. In the thesis he specifically focuses on how the muscle of South African competitive male bodybuilders materialises in gendered and racialised ways through the active co-participation of bodybuilders' more-than-human world(s). Jarred Martin's research brings to new light the dynamic ways in which competitive male bodybuilders' hyper-muscular and ultra-ripped physiques are in fact always already (re)built through trans-corporeal relations with the material agencies of, for example, mountains of food and nutritional supplements, chemical concoctions of steroids, and the force of weightlifting equipment.

Supervisor: Professor F Boonzaier (Psychology)
Co-supervisor: Emeritus Professor D Foster (Psychology)

Eleni Pantelis
Thesis Title: *Human subjective homologues of established basic emotion correlations in lower mammals: a neuro-psychoanalytic study*

Eleni Pantelis completed her BSocSc (Honours) in 2002 and her MA in Psychological Research in 2005 at UCT. She registered for her PhD studies in 2006.

Eleni Pantelis's thesis is based on research which tested Jaak Panksepp's theory that depression is based in the normal mammal 'separation distress' reaction, which unfolds over two phases: (1) 'protest' and (2) 'despair'. The first phase is characterised by depleted levels of the brain chemical endorphin (acting on mu type receptors) and the second by depleted dopamine (acting at D2 type receptors). Panksepp's theory comes from animal research in which the manipulation of these chemicals produced behaviours that looks like panic and depression respectively. However, animals cannot tell us how they feel. Eleni Pantelis studied the effects of manipulating these brain chemicals in human volunteers who described the subjective effects of the drugs upon their mood. Her results broadly confirm Panksepp's theory although the psychological effects of the drugs were more complex than expected. This was attributed to the larger cortex of humans which results in cognitive distortion and elaboration of raw emotions.

Supervisor: Professor M Solms (Psychology)

Andrew Verrijdt
Thesis Title: A *proposed typology for paedophilia: a grounded theory analysis of online discourse*

Andrew Verrijdt is a psychologist and writer. He has worked as a counselor, therapist, and consultant in some of the most challenging environments in South Africa.

Andrew Verrijdt's thesis research involved analysing conversations between self-identified paedophiles – conversations that were accessed via a pair of secret websites on the so-called 'darknet'. It is possible that this is the first research on paedophilia ever conducted in which the respondents did not have a strong incentive to lie about their actions and beliefs. As a result, many prior research findings have been supported, contested, or enhanced by the study. These included possible methods for making people with paedophilia less likely to commit acts of child sexual abuse. It also involved the creation of

a possible breakdown of the physical and sexual abusers of children into eight categories and sub-categories. It is hoped that this breakdown will be useful in the prevention of child abuse, and the apprehension of those responsible.

Supervisor: Emeritus Professor D Foster (Psychology)

In Religious Studies:
David Christopher Smit
Thesis Title: *Reimagining the birth of the Messiah and his forerunner in Luke's gospel: a sociorhetorical interpretation*

David Smit holds a BTh and BTh (Honours) in New Testament from the University of South Africa, and a ThM in New Testament from Princeton Theological Seminary in the USA. As a pastor in the Uniting Presbyterian Church in Southern Africa, he has a special interest in biblical interpretation.

David Smit's thesis undertakes a sociorhetorical analysis of the birth and infancy narratives of John the Baptist and Jesus the Messiah in the Gospel of Luke. Sociorhetorical interpretation provides a dialogical approach to the analysis, enabling the identification of a range of rhetorical strategies used by Luke to ascribe surpassing honour to Jesus over and against John. This brings to the fore a juxtaposition of the two birth accounts, enhanced by a range of rhetorical textures and modes of discourse. The thesis makes a contribution to Lukan research by finding that ideological texture is progressively developed in the rhetoric of the narrative aimed at the legitimation of Jesus' position of dominance in relation to John. In the process, an asymmetrical power relationship between John and Jesus emerges, and the universal relevance of Jesus as royal Saviour and Messiah is implied.

Supervisor: Emeritus A/Professor CA Wanamaker (Religious Studies)

Birgit Taylor
Thesis Title: *It is time: theology of time in the book of Revelation as reflected in the interpretation of scripture and the temple cult*

Birgit Taylor holds a BCom specialising in Industrial and Organisational Psychology and in Management from the University of South Africa. She also holds BA (Hons) and MA degrees in Religious Studies from UCT, where she continued her PhD studies.

Birgit Taylor's thesis uses socio-rhetorical interpretation, introduced by Vernon K. Robbins, to explore the nature of time in the Book of Revelation in the Christian Bible. Firstly, the text is analysed by selecting specific terms pertaining to time, and these are explored with the aid of inner texture as well as intertexture. Secondly, working with intertexture, cultural and social intertexture allows further insights into the cultural context of Revelation towards further clarification and enrichment of the analyses. Both chronological time, depicted as a continuous line, and experiential ('Kairos') time, conceptualised as a conical spiral, are examined, with particular attention to the interaction between these. The resulting analysis and discussion assist in creating a conceptual appreciation of the present, pre-eschatological time, as experienced by author, readers, and hearers of the book, within the human constructs of the present, the past, and the future, while generating a nuanced reading of the text.

Supervisor: A/Professor A Ukah (Religious Studies)

In Social Development:
Fadila Jumare
Thesis Title: *Factors influencing utilization and adherence to prevention of mother to child transmission of HIV/AIDS services in Rivers State, Nigeria*

Fadila Jumare holds a BSocSc(Hons) in Public Policy and Administration from UCT and an MA in Development Studies from Nelson Mandela University. Before enrolling for a PhD at UCT, she worked in a research institute specialising in health and education sector policies in Nigeria.

Fadila Jumare's thesis utilised the Health Belief Model and Social Support Theory to explore the nature and extent of adherence and utilisation of Prevention of Mother to Child Transmission (PMTCT) services and social support mechanisms available to Women Living with HIV/AIDS (WLWHA) in Rivers State, Nigeria. She triangulates narrative data from WLWHA's lived experiences with data from key informant interviews with health service providers. Her findings show that, although utilisation of and adherence to PMTCT services and principles were very high among WLWHA in her research area, there were various key challenges. Deterrents to optimal utilisation and adherence included unavailability of HIV testing kits, antiretroviral medication stock-outs and inadequate human resources for health, while major socio-economic barriers to PMTCT uptake included high costs of transportation, of antenatal care and of exclusive formula foods. Based on her findings she makes specific recommendations for inter-ministerial collaborations and targeted partnerships in PMTCT service delivery.

Supervisor: Professor J John-Langba (University of Kwa-Zulu Natal)

In Sociology:
*Mario De Andrade Pissarra
Thesis Title: *Locating Malangatana: decolonisation, aesthetics and the roles of an artist in a changing society*

Mario de Andrade Pissarra holds a BA (Fine Arts) and BA(Hons) degree in History of Art from UCT. He joined the Department of Sociology in 2011 for his PhD studies. He has extensive experience as an independent art historian.

Mario Pissarra's thesis explores the relationship between decolonisation and aesthetics through a detailed study of the Mozambican artist Malangatana Ngwenya (1936-2011). The artist's extensive exhibition history is located within changing social and political contexts, nationally and

globally, highlighting the influence of both internal and external forces in shaping his career. Malangatana's iconic stature, and the ways in which his multi-faceted public image has been constructed for different publics at various junctures is brought into focus. The artist's paintings are discussed in relation to Mozambican experiences of colonisation, anti-colonial resistance, postcolonial promise, the traumas of the civil war, and subsequent capitulation to neo-liberalism in the aftermath of the Cold War; and his aesthetic strategies are considered in relation to those of his peers in other African countries. The thesis concludes with provocative questions concerning the ways in which the artist reinforces hegemonic narratives and/or unsettles them.

Supervisor: Emeritus Professor A Sitas (Sociology)

*Talia Meer
Thesis Title: *Feeling difference: history, encounter and the affective life of a postcolonial neighbourhood*

Talia Meer holds a BA in Politics, Philosophy and Economics from the University of KwaZulu-Natal, and an MA in International Development Studies from Dalhousie University, Canada. She joined UCT's Gender, Health and Justice Research Unit in 2011 and began doctoral studies in the Department of Sociology in 2015.

Talia Meer's thesis traces the history of Observatory, a Cape Town neighbourhood, and the contemporary experiences of its fem residents (cis- and transwomen, feminine men and gender non-conforming people who identify as feminine). She argues that in the postcolonial city historically produced feelings are powerful structuring forces that shape meaning-making, sense of place, and interactions in everyday life. She reveals that, despite a global focus on urban diversity and mixing or pervasive anxieties about feminine victimisation in public space, fems make sense of difference and danger based on particular gendered and racialised ways of knowing and feeling all of which shape the character of the neighbourhood, their feeling of belonging, as well as their experiences of desirous and fearful encounters. Through this, Talia Meer reveals fems as deeply implicated in the production and experience of gendered and raced violence, structural and intimate, as they live and make the postcolonial city through feelings.

Supervisor: A/Professor A Pande (Sociology)
Co-supervisor: Dr Z Matebeni (Institute for the Humanities in Africa)

Lwando Scott
Thesis Title: *"The more you stretch them, the more they grow": same-sex marriage and the wrestle with heteronormativity*

Lwando Scott holds a BSocSc(Hons) in Diversity Studies from UCT, and an MSc in Social Responsibility from St. Cloud State University, Minnesota, USA. Before beginning his PhD studies in 2012, he worked at the Minnesota Aids Project as Community Educator.

Lwando Scott's thesis moves beyond the assimilationist versus radicalisation debate that was central in same-sex marriage conversations characterised by the disagreement between Sullivan (1995) and Warner (2000). That debate relies on a binary logic of either/or, whereas – as he shows – the experiences of same-sex couples in Cape Town demonstrate a much more complicated picture. He provides evidence that while same-sex marriage does not radically change the institution of marriage it does provide a challenge to systems of dominance such as heteronormativity. Moreover, it has a transformational impact on the interpersonal relationships of same-sex couples in that couples stretch themselves and are assertive in making claims about their sexuality in ways that help stretch those around them to open themselves to the possibilities of same-sex love. His analysis also shows that same-sex marriage provides alternative ways of reading familiar categories like "husband" and "wife" and that only our imaginations limit the infinite possibilities of relationship construction.

Supervisor: A/Professor E Moore (Sociology)
Co-supervisors: Dr Z Matebeni (Institute for the Humanities in Africa); Professor D Posel (Institute for the Humanities in Africa)

FACULTY OF COMMERCE

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 Orator will present Professor Marlene Belfort and Professor Georges Belfort to the Presiding Officer for the award of an honorary degree.

The graduands and diplomates will be presented to the Presiding Officer by the 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.)

DISTINCTIONS IN THE FACULTY OF COMMERCE

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%.

HONORARY DEGREE

Marlene Belfort
for the DSc (honoris causa)

Professor Marlene Belfort graduated from UCT with a BSc in 1965, followed by doctoral and postdoctoral work at UC Irvine in the United States, and the Hebrew University in Jerusalem. She is currently a distinguished professor in the Departments of Biological Sciences and Biomedical Sciences at SUNY at Albany, and is a world-renowned scientist in the field of molecular genetics and biochemistry.

Her leading achievements include the self-splicing of introns in bacteriophage T4 and a detailed analysis of the splicing mechanism. Her demonstration that the introns are mobile and later comparison of the endonuclease encoded by and involved in intron movement has stimulated debate over evolutionary origins. More recently, her work has led to the development of a model for the mechanism of intron evolution that is not only applicable to prokaryotes, but may shed light on vertebrate genes as well.

The importance of Professor M Belfort's work has been recognised with numerous awards and honours. She has also chaired committees for a number of leading scientific organisations, and has published over 190 scientific papers and co-edited two books. For the past 25 years she has enjoyed continuous grant funding from the National Institutes of Health.

In addition to her research undertakings, Professor M Belfort has proven exceptionally committed to teaching, training and professional service. Her dedication to mentorship – of younger scientists, technicians, undergraduate and postgraduate students, and even high school pupils – has resulted in her working with dozens of PhD students who have gone on to fill top placements at leading scientific organisations around the world. Within the global scientific community, she is particularly well known for her support of women in science, winning the ASM Alice Evans Award, which recognises contributions toward the participation and advancement of women in microbiology.

Beyond her hugely influential discoveries relating to introns, Professor M Belfort's prolific publication record, impeccable grant history and longstanding reputation for mentorship, make her a worthy candidate for an honorary doctorate from UCT.

HONORARY DEGREE

Georges Belfort
for the DScEng (honoris causa)

Professor Georges Belfort graduated from UCT with a BSc in 1963, followed by master's and doctoral degrees from the University of California. He is considered one of the world's leading biochemical engineers. Over the course of a career which has spanned five decades, he has contributed to the advancement of science in three principal ways: firstly, through his own ground-breaking research, secondly as a teacher dedicated to sharing knowledge with the next generation of biochemical engineers, and finally as an author, editor, consultant and board member of a range of scientific organisations.

As a researcher Professor G Belfort's work has been described as transformational. In 2016 the American Institute of Chemical Engineers held a series of honorary lectures in recognition of Professor Belfort's role as a global expert in bioseparations. Joel Plawsky, head of the Department of Chemical and Biological Engineering at the Rensselaer Polytechnic Institute said at the time: "Georges has developed extraordinary membrane modules and membrane materials and is a pioneer in the use of inteins, with his wife, for separating biological molecules. He has also made significant contributions toward understanding the process by which proteins misfold and lead to fibrils. Protein fibrils are common and cause problems with storing and delivering insulin, but they are most commonly associated with Alzheimer's disease."

Professor G Belfort has published more than 200 peer-reviewed papers, 22 book chapters and authored or co-authored three books. He has an exceptional *h* index of 64. Over the course of his career his work has been recognised with numerous awards, including the ACS E.V. Murphree Award in Industrial and Engineering Chemistry, the AIChE Clarence Gerhold Award in Separation Science and Technology, and the ACS Award in Separation Science and Technology. In 2014 the Alan S. Michaels Award for Innovation in Membrane Science and Technology was bestowed upon him. This is an award given in recognition of individuals who have made outstanding innovations and/or exceptional lifetime contributions to membrane science and technology.

As an alumnus of UCT, Professor G Belfort has maintained contact with the Department of Chemical Engineering. The award of this honorary doctorate recognises and strengthens the link between UCT and the outstanding scholarship of Professor G Belfort.

NAMES OF GRADUANDS

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

FACULTY OF COMMERCE

Dean: Associate Professor L Ronnie

ADVANCED DIPLOMA IN ACCOUNTING

*Caryn Samantha Baxter

ADVANCED DIPLOMA IN ACTUARIAL SCIENCE

*Gael Neuhaus
Pitso Litsitso Pule

ADVANCED DIPLOMA IN BUSINESS PROJECT MANAGEMENT

*Mthokozisi Siphamandla Khumalo
*Pulane Juliet Rakgoale

POSTGRADUATE DIPLOMA IN ACCOUNTING

*Luca Botha
Musa Faisal
*Amkele Gobinca
*Nxalati Mangotlo
Kwena Refilwe Matsapola
Usiphile Baphakmise Mpetsheni
*Kaveer Persotham
*Khululwa Kwandiwe Tshebi

POSTGRADUATE DIPLOMA IN MANAGEMENT

In Marketing:
*Moipone Smouse

POSTGRADUATE DIPLOMA IN MANAGEMENT IN ENTREPRENEURSHIP

*Andrew James Hunter Nicholas
*Talya Claire Plaatjies

POSTGRADUATE DIPLOMA IN MANAGEMENT IN MARKETING

*Kudzani Moswela
*Nhlakanipho Mswane
*Gaongalelwe Seth Tiro

POSTGRADUATE DIPLOMA IN MANAGEMENT PRACTICE

In Business Administration:
Katherine Elizabeth Beard
Jasmine Beckett
Linda Magdelena Brown
*Jacobus Adriaan Burger
Zelda Cottle
Tarin Lee Cupido
Banzi Paxley Dlamini
Michele Fry
Bongeka Penelope Funani
*Bradley Charles Geduldt
Rejoice Mawunyo Adzo Gorni
Akbar Hassam
Rochelle Roxzanne Hector
Mogamat Faiek Hendricks
Willem Christoff Hikuam
Mark De Villiers Jaftha
Cleone Jordan
Martin Mubenga Kalombo
Serge Luono Kunu
Siyabulela Maxin Mahlathi
Baltazer Dikinya Mahove (with distinction)
Maimana Petunia Makgamatho
Seshni Mala (With distinction)
Rebotile Fortune Malakalaka
Andiswa Maqam
*Pierre Jacobus Marais
Lesiba Khutsiso Matladi
*Eugine Sibhekiseni Memela
*Sibani Mngadi
Lunga Bulumko Mnqandi
Ayanda Moholi
Nontlanga Mokoena
*Matlhagane Joseph Motswai
Dean Wayne Myburgh
Lethokuhle Nombuso Ndebele
Ange Gaelle Ndjeuya Sungo (with distinction)
Yannick Mulundu Nzonde
Ashleigh Irene October
Ivan Odendaal
Mervyn Gavin Peters
Vundli Ramokolo
Yolanda Rini (with distinction)
Christian Hans Schiess (with distinction)
Mark Craig Schoombie
*Duncan Frederick William Scott (with distinction)
Nombuso Shabalala
*Mogamat Shafiek Soeker
Robin Stewart (with distinction)
* Zelni Terblanche (with distinction)
Aneesa Theron
Tumelo Unity Tlhapi
*Anton Verwey
*Andrew Harvey Melville Woodrow (with distinction)

In Business Leadership:
Joseph Aliker
Thandiwe Senzeni Banda
Silvana Battani
Romelia Buys
Ramano Dombo
*Thomas Thompson Duduchoge
Janine Melissa Farrell
Manga Tekene Fombad
George Mathenge Kiruthu
Thato Mabale
Melissa Amy Merckel
Eunice Mintah Young
Pule Johannes Mofokeng
Samukelisiwe Makhosazana Mtshali
Stephen Musyoki Muendo
Allan Musiwa
Daniel Nuthua Muthumbi
Godwin Hakanyanga Mweemba
Alistair Naidoo
Thomas Njoroge Ndegwa
Pauline Wambui Njoroge
Vanevola Detta Otieno
Logie Padayachee
Florian Cyril Pesha
Desmond Gordon Polson
Fahadi Sensuwa
Jacob Maingi Sila
Justin Singh
Peter Tamale
Lindelwa Petunia Zwane
Lindokuhle Charity Zwane

In Innovative Leadership:
Kate Hach

POSTGRADUATE DIPLOMA IN SURVEY DATA ANALYSIS FOR DEVELOPMENT

Grey Khotso Letsoalo

DEGREE OF BACHELOR OF BUSINESS SCIENCE

Philip de Castro
*Trevas Bill Elliott
*Kimon Haralambous
Robin Mpumelelo Mahlangu
Sbongakonke Sandisiwe Makhathini
*Mihlali Mantyi
*Ryan Desmond Piaray
*Lindsay Margaret Swanepoel

DEGREE OF BACHELOR OF BUSINESS SCIENCE IN ACTUARIAL SCIENCE

Kiran Desraj
Kyle Jansen Van Vuuren
*Tomas Michal Masojada

DEGREE OF BACHELOR OF COMMERCE

Arshad Abrahams
Adam Rowson Bebington
Andrew Chigundu
Arnold Chinaka
Ann Clarke
Nicholas Andrew Dammert
Masentle Refiloe Dlamini
Zukile Dube
Ismail Ebrahim
*Cheryl Kanyika Emvula
*Nathan Jonah Esra
*Zaakir Essa
*Joash Aldrin Gabriel
Sayed Mogammad Gamiet
Zeenat Ganie
Micaela Gillion
Carlo Gomez
*Jasmin Gordhan
Zethembiso Singabakho Gwala
Tsu-Hsiang Huang
*Giuliana Susan Iovino
Zoradah Laura Kruger
Reshoketswe Shadi Legodi
Ryan Logue
Claire Monica Lynam
*Kinsley Maimela
*Nitisha Makanjee
Mamaponya Ginah Makgoba
Bongani Ralph Makile
Mathieu Daryl Maury-Jheengoor
Nicholas Meintjes
Gugulethu Thandeka Denise Mgutshini
Yanga Mhlaba
*Sumani Dieketseng Billy-Joe Mjojo
Ukho Mlenzana
Riyentha Moodley
Given Moyo
Mukeliwe Msomi
Tholithemba Nkosingiphile Mthalane
Tadiwanashe Ron Muchaka
Ndiamufuna Jubilee Mukosi
*Kamisha Munesar
Bulumko Themba Jnr Napakade
Bothwell Nengomazha
Nqobile Ngcobo
Wowo Nondabula
Buntu Alexander Ntebe
Uduor Ochieng
*Aaliyah Osman
Nicole Funmi Owhin
*Caleb Abongile Qoyo
Phoka Precious Rabosiu
*Nokukhanya Radebe
*Yashna Ravidas
Siphosethu Sidinile
Jessica Frances Stone
Megan Celest Swartz
Danielle Stephanie Topkin
Sohail Tulsi
Joyce Magano Upindi
Michael Lawrence Wevell
*Luke Edward Woods
*Zomakahle Luyanda Xulu
Naomi Shu-Ling Yeo
Siphakamile Romeo Zikalala
Simbarashe Tainos Zingoni

DEGREE OF BACHELOR OF COMMERCE IN ACTUARIAL SCIENCE

Vuyisile Wolanani Dhlula
Darren Diergaardt
*Ishfaaq Illahibuccus Sona
Stephen Richard Knott
Natasha Rutendo Mukuyu
Nkosinathi Sifiso Nsibande
Marison Olivia Randriamady
Kairav Soni
*Nicholas John Steele
Jemma Ruth Waksman

DEGREE OF BACHELOR OF COMMERCE HONOURS

In Actuarial Science:
Danél Kolver
Tlabo Aubrey Mabeso
*Imtyaz Rahim
Akshay Rampersad
*Qianxian Song

In Economics:
Muhammed Zaafir Dhansay
Minkateko Charmaine Mathye
*Phathutshedzo Siboiboi
*Geraint Van Der Rede

In Financial Analysis & Portfolio Management:
Leletu Andiswa August
*Lonwabo Bakumeni
Craig Simbarashe Chuma
Justin Grant Davids
*Tsitsi Dorcas Dhitima
Colin Francois Du Sart (with distinction)
*Wade Michael Gunning
Mashkur Luqman Hassiem
*Joshua James Jameson
Nafeesah Karstens
*Thabiswa Noncedo Kuboni
*Malose Luescher-Mamashela
*Alikho Zingisa Mbulana
*Lebohang Mofokeng
*Whitney-Carol Puleng Mohlokoane
Kureshlen Moodley
Oliver Plunkett Morris
Nonkululeko Mpetsheni
Qhawekazi Mtini
*Thompho Marcia Nemakonde
*Mafhungo Nevhutalu (with distinction)
Zacharia Ntambwa
Esther Ufuomaroghene Oghenetega
*Michael Daniel Percy
Siphosethu Asemahle Poswa
Zaahier Sedick
*Kholofelo Shai
*Nikhir Ketan Soni
*Shae Alexandra Strauss
Alston Duwayne Swarts
Christopher George Welsh
*Cameron Luke Wilson
Chimusante Wonani
Monwabisi Zikolo
Sifiso Zakhele Zondo
Siphokuhle Honest Zwane

In Information Systems:
Adelade Kusena
*Ronald Kyobe

In Quantitative Finance:
*Micaela Narasmulu

In Statistics:
*Cebo Magubane

In Tax Technical and Compliance:
Liezel Morkel

DEGREE OF MASTER OF BUSINESS ADMINISTRATION

*Brett Colin Lunt

In Executive Management:
Nompumelelo June Dweba
Nthabiseng Rudith Makgatho
Thabo Abel Nkitseng

DEGREE OF MASTER OF BUSINESS SCIENCE

In Marketing:
Takunda Victor Chivizhe
Quintin Christopher Coetzee
Bethany Claire Hill
Sinegugu Hlela
*Kristin Ransome
Mxolisi Gladwell Sibiya

DEGREE OF MASTER OF COMMERCE

In Accounting:
Jared Ryan Cape
Asief Dhansay
Chuma Mjali
Caitlin Claire Mongie

In Applied Economics:
Tarryn Candice Beattie (with distinction in the dissertation)
* Nicholas Arthur Fitzhenry (with distinction in the dissertation and the degree with distinction)
Robert Alexander Hill
*Brynde Michaela Kreft
Pierre Leonard Le Roux (with distinction in the dissertation)
Michael Mulei Mutava
Charles Richard Preston (with distinction in the dissertation)
Nathan Sklair

In Corporate Finance & Valuations:
Bianca Robyn Philogene

In Economics:
*Kenneth John Berger (with distinction)
Cecily Claassen
*(With distinction) Rowan Philip Clarke
Mornee Marvin Hoffman (with distinction in the dissertation)
*Xinman Liu (with distinction)
Tlotlo Pauline Nkwe (with distinction)
Brandon Daniel Oaker
*Benedict Vincent Rhodes
Jack John Thunde
Elli Cherissa Yiannakaris (with distinction)

In Economic Development:
Zeenat Ebrahim
*Abdul Gafar Abubakar Masa-ud
Lwandile Azande Ngewana
Ruth Boyani Ongere
Tshegofatso Ramatlo
Chipo Yvette Rusere (with distinction in the dissertation)
Rowan Douglas Spazzoli
Emma Unite (with distinction in the dissertation)

In Economic Science:
Senzo Peter Mthembu

In Finance:
Roland Nubiga Lima

In Financial & Risk Management:
Kagiso Eagile Modise

In Financial Management:
*Sylvester Neil Albanie
*Ceylan Cemre Asci
Bint Nur Ebrahim
*Katlego Joseph Leepile
*Davy Richard Siame

In Financial Reporting, Analysis & Governance
Tracy Louise Kraus
Taariq Mohamed

In Information Systems:
Matilda Foli (with distinction)
Roshan Harneker
Nombulelo Virginia Jokazi
*Khaya Kunene
Joshua Magunduni
Taurai Brian Mhembere
Zizipho Caroline Ndyave
Roline Tutauri Tjipueja
Meduduetso Legakgala Aline Tsumake (with distinction)

In International Taxation:
Nazreen Begg
*Andre Decloedt
Mary-Ann De Wet (with distinction in the dissertation)
Baba Kate Dunjane (with distinction in the dissertation)
Komil Dilap Gordhan
*Karen Moser (with distinction in the dissertation and the degree with distinction)
Nikisha Radhakrishna

In Investment Management:
Sergei Mikhail Alexandroi
Nde Asaa Akongnwi Awasom
Sam Granger Feinstein
Arnold Mark Lumala
Albertus Wynand Christoffel Marais
Ibukun Kolawole Oyedotun
Stuart John Polden (with distinction in the dissertation and the degree with distinction)
Luke Adam Charlton Richardson
Matsepe Modikeng Theodore Tsiu

In Marketing:
Zandereen Coetzee
Lobojo Laila Barnaba Lokosang
Phenyo Wandile Mvula

In Organisational Psychology:
Cameron Michael Faquharson Coutts
*Steven Conrad Van Der Westhuizen

In South African Taxation:
Razeen Adams
Paul Christiaan Barberton
Karl Alexander Haupt
*Lauren Stacey Herbert
Ntombifuthi Valerie Khulu
*Andre Claude Krige
Abrianne Johnnifer Marais
*Mbuyiseli Mayezana
Bonita Ronelda Raymond
Jill Scheepers

DEGREE OF MASTER OF COMMERCE IN DEVELOPMENT FINANCE

Isaac Vivian Kinhonhi
*Joan Jesang Kiptorus
Lumko Ndumiso Luhabe-Morrison
Noluyolo Magazi (with distinction in the dissertation)
*Mary-Anne Mutsa Musonda
Monwabisi Joseph Myoli
Noluthando Pal Ayanda Ngwenya

DEGREE OF MASTER OF DEVELOPMENT POLICY AND PRACTICE

Ntandokazi Nikiwe Cenge
*Ringisai Chikohomero
Nobayethi Patience Dube
*Kamesh Flynn
Pamla Gopaul
Ayanda Sydney Keka
Obakeng Kabelo Mabalane
*Oratile Olebogeng Matshego
Loyiwe Mbuzi
Ayanda Ngqandu
Nhlahla Piet Sebola (with distinction)
Sizonqoba Sonny
Vincent Bamugaya Tumusiime
Ebony Dominique Vincent

DEGREE OF MASTER OF INDUSTRIAL & ORGANISATIONAL PSYCHOLOGY

*Aayesha Davids
*Hulisani Edna Dzuguda (with distinction in the dissertation)
Rachel Govender
*Nadira Majudith (with distinction in the dissertation)
Danielle Malan
*Megan Anne Martin (with distinction in the dissertation and the degree with distinction)
Jodi Milosevich
Rejeanne Kayla Petersen
Philippa Jean Rauch
Carey Singer (with distinction)

DEGREE OF MASTER OF PHILOSOPHY

In Development Policy & Practice:
Kaputo Melody Chenga
*Alexander Chileshe
Toivo Djeiko Ndjembela
Phumelele Nondumiso Ngcobo (with distinction in the dissertation)
Henry Nkhoma
*Chris Nkwatsibwe
*Michelle Micomyiza Ntukanyagwe

In Economics:
Pieter Du Plessis

In Financial Technology:
Ashleigh Favish (with distinction in the dissertation and the degree with distinction)
Aidan Kirstie Fourie
Masego Modibane
Kungela Mzuku (with distinction in the dissertation)
*Kuselo Ntsika Ntsaluba
*Bryony Ortlepp (with distinction in the dissertation)
*Anna Teresa Riedl
*Thandile Xiphu

In Mathematical Finance:
Ayesha Camroodien
*Danielle Ana Crawford
*Wade Terrence Cresswell
*Jessica Endekovski
Shabbirhussein Abdulla Esmail
Graeme Hammond
*Qaphela Zikisa Mashalaba (with distinction)
Nicolas Anthony Luke Mitoulis (with distinction)
James Nevin (with distinction)
Dumisani Justice Ngwenza
Riaz Patel (with distinction)
*Petro Pavlou (with distinction)
*Chetan Krishendutt Ramlall (with distinction in the dissertation)
Kalind Ramnarayan (with distinction)
*Christopher Brian Sterley (with distinction)
Dmitri Vakaloudis
*Richard John Van Gysen (with distinction)
*Cole Van Jaarsveldt (with distinction)
Vykta Wakandigara
Joshua Wort (with distinction)

In People Management:
Sandra Lynne Hill
Ludwick Tebatso Kekana (with distinction in the dissertation)
Jacob Jacobus Malan (with distinction in the dissertation)
Babalwa Mgoduka
Dolly Gofaone Mokgatle
Heritha Nankole Muyoba
Randall Alvin van Wyk
Nolitha Happiness Thando Zethu

In Programme Evaluation:
Thomas Salvatore Augustus Guattari-Stafford
*Sandra Mkandawire
Lee Robert Nicholson
Camille Anne-Louise Rabier
*Amosse Francisco Ubisse
*Nicola Van Der Merwe

DEGREE OF MASTER OF PHILOSOPHY IN INCLUSIVE INNOVATION

Chitalu Joshua Chipangila
Christopher Hosken
Kathryn Suzanne Johnston
Ashley Michelle Newell (with distinction)
Matthew Drummond Worthington-Smith
Penelope Joan Youngleson (with distinction)

DEGREE OF DOCTOR OF PHILOSOPHY

In Business Administration:
Roger Maitland
Thesis Title: *Exploring emergence in corporate sustainability*

Roger Maitland holds a BA in Psychology from UCT, a BA(Hons) in Psychology from the University of South Africa, and an MA in Professional Development (Coaching) from Middlesex University in the United Kingdom. He works as a coach and organisational development consultant.

Roger Maitland's thesis focuses on corporate sustainability in financial services organisations in Namibia and Botswana and explores corporate sustainability as an emergent process.

He implemented a holistic organisational assessment in each of the organisations included in the study to identify coherence between clusters of employees. Interviews were conducted to explore multiple interpretations of these results. The study finds that sustainability emerges alongside finance and diversity measures. The study makes three contributions to the understanding of emergence in corporate sustainability. First, it proposes four modes by which sustainability is enacted by employees. Second, dimensions required for coherence between the environment and organisation, and organisation and employee are identified. Third, it explains how the shift to corporate sustainability occurs by means of four conditions. The study recommends that corporate sustainability is holistically cultivated rather than being integrated through a linear process of change, thereby supporting a self-organised approach to corporate sustainability.

Supervisor: Professor W Baets (Graduate School of Business)
Co-supervisor: A/Professor K Sewchurran (Graduate School of Business)

In Economics:
Ross Graeme Harvey
Thesis Title: *Two petro-states diverge: explaining the institutional evolution of Nigeria and Angola*

Ross Harvey completed his BCom in Philosophy, Politics and Economics and MPhil in Public Policy at UCT. He began studying towards his PhD in 2013 while working as a researcher at the South African Institute of International Affairs.

Ross Harvey's thesis focuses on the divergent political and economic trajectories of Nigeria and Angola since oil extraction became central to their economies and explains why two similarly oil-wealthy and weakly institutionalised African states experienced different political and economic outcomes. He uses 'analytic narrative' – the application of a game theoretic model to a historical puzzle – and compares oil-for-infrastructure deals negotiated in Angola and Nigeria with Asian National Oil Companies between 2004 and 2007. Contrary to expectation, the deals were struck in Angola but failed in Nigeria. He finds that this divergence in outcomes reflects the varying quality of the institutional arrangements in each country for engaging foreign investors. The more open political order that emerged in Nigeria prevented it from being able to exploit its oil wealth efficiently, whereas in Angola the consolidation of dictatorship and efficient management of oil assets mutually promoted one another.

Supervisor: Professor D Ross (Economics)
Co-supervisor: Professor B Levy (Economics)

Catherine Namome
Thesis Title: *The economics of tobacco production and feasible alternatives in Uganda*

Catherine Namome holds a BSc in Forestry, Makerere University and an MSc in Agricultural Economics, University of Pretoria. She joined the School of Economics at UCT in 2014 for her PhD studies. Previously, she worked as an Agricultural Economist at the Agricultural Research Council.

Catherine Namome's thesis focuses on Article 17 of the World Health Organisation's Framework Convention on Tobacco Control on promoting alternatives to leaf tobacco production. She conducted a household survey in Uganda on the economics of tobacco and alternative crops which revealed that leaf tobacco production gives poorer returns, having higher costs and requiring more inputs than competing crops. However, producers integrated into the leaf tobacco marketing system have easier access to capital and markets. She further estimates how leaf tobacco producers respond to differences in prices of tobacco, cash crops and staple food crops, and finds that, although experience and past investments tend to commit farmers to crops they know; they do change their balance of cash crops to increase profitability. Lastly, the study investigates the balance of power across the domestic value chain. By extending pre-season credit, buyers and processors establish a degree of control including over the prices that farmers receive for their crops.

Supervisor: Professor C Van Walbeek (Economics)
Co-supervisor: Associate Professor Beatrice Conradie (Economics)
Co-supervisor: Associate Professor Anthony Leiman (Economics)

Abel Otwori Nyagwachi
Thesis Title: *Essays on the economics of tobacco and alcohol control policy in Kenya*

Abel Nyagwachi holds a BA in Economics and Master of Economics Degree from Kenyatta University, Kenya. He joined UCT in 2015 for his PhD studies, prior to which he worked as an Economist at the National Treasury and the Parliamentary Budget Office, Kenya.

Abel Nyagwachi's thesis uses data from the Kenyan household and budget survey for 2005/6 and 2015/16 to examine the effects of the tobacco- and alcohol-control policies that were implemented in Kenya between 2005 and 2015. He finds that tobacco- and alcohol-consuming households spend less on necessities such as food, healthcare and education. He also finds that tobacco- and alcohol-control polices contributed to a decline in the prevalence of child malnutrition in tobacco and alcohol consuming households. He finds that an increase in the price of cigarettes reduces the demand for cigarettes, other tobacco products and some stimulants and that an increase in the price of beer increases the demand for informally-produced alcohol. He also finds that tobacco- and alcohol-control policies contributed to reduction in tobacco and alcohol budget shares in the poorest households over the period under review.

Supervisor: Professor C Van Walbeek (Economics)
Co-supervisor: Dr G Chelwa (Graduate School of Business)

Morne Jacques Oosthuizen
Thesis Title: *South Africa's generational economy*

Morné Oosthuizen holds BCom, BCom(Hons) and MCom degrees from Stellenbosch University. He is a senior researcher in the Development Policy Research Unit in UCT's School of Economics and began part-time study towards his PhD in 2013.

Morné Oosthuizen's thesis focuses on the way in which South Africans earn, consume, share, and save resources at different ages by constructing National Transfer Accounts, combining data from household surveys, national accounts, government budgets, and population projections. He analyses how the changing age structure of the South African population will affect future economic growth and finds that the period during which this impact is positive—the demographic dividend—will be over within 20 years. He shows how South Africa's extreme inequalities distort estimates of these resource flows, potentially leading to inadequate policy recommendations. By not valuing women's and men's time spent performing household chores and carework, he shows that women's full economic contributions are significantly underestimated. The analysis suggests that, by improving education and health outcomes and by narrowing gender inequalities, policymakers can better capture the potential benefits of our youthful population in order to raise living standards.

Supervisor: Honorary Professor I Woolard (Economics)
Co-supervisor: Professor M Leibbrandt (Economics)

Francois Karl Steenkamp
Thesis Title: *The dynamics and determinants of South African exports*

François Steenkamp holds a BCom and an MCom in Economics from the University of KwaZulu-Natal. He joined the School of Economics at UCT in 2010 for his PhD studies. He is a researcher at the Development Policy Research Unit, with interests in international trade, structural transformation and complexity economics.

François Steenkamp's thesis studies the dynamics and changing composition of South Africa's export structure and the factors driving its evolution. Using product-level trade data, he decomposes South Africa's export growth in the post-1994 period and shows that diversification and growth along the extensive margin is an important source of the country's rise in export value. He then investigates the role of endowments in shaping South Africa's evolving export structure. His analysis reveals an export structure that is becoming increasingly capital-intensive. In his final chapter, he estimates the effect of tariff reform associated with the Trade, Development and Cooperation Agreement in driving entry of South African export products into new markets. He finds that tariff reform is effective in driving the diversification of exports, particularly of differentiated products. The research highlights that policy interventions that address market access through trade reform can drive export diversification.

Supervisor: Professor L Edwards (Economics)

Michal Jerzy Stoklosa
Thesis Title: *Effects of the evolving global tobacco product landscape on smokers' switching behaviors*

Michal Stoklosa is Principal Scientist (Taxation and Health) in the Economic and Health Policy Research Programme at the American Cancer Society. Before joining UCT for his PhD studies, he received an MA in Managerial Economics from the University of Warsaw and an MA in Economics from Georgia State University.

Governments have increasingly used excise tax to reduce tobacco use. Smokers respond to the tax-driven price increases by quitting, reducing consumption, or by switching to alternatives. Michal Stoklosa's thesis analyses three aspects of tobacco product switching. First, he uses 2012 and 2014 data from the ITC Zambia survey to model price-driven substitution. He finds that reducing between-product price differences would reduce substitution from cigarettes to roll-your-own tobacco. Second, he uses 2014-2018 monthly retailer panel data from Japan to show that traditional cigarette sales trends changed significantly when a novel tobacco product, IQOS, was introduced. Thus, between-product switching is influenced by the new product's introduction. Finally, he uses 2004-2017 European Commission data to demonstrate that differences in cigarette prices between jurisdictions might incentivise some smokers from jurisdictions with more expensive cigarettes to switch to cheaper cigarettes available across the border. These findings are useful for policymakers looking to regulate tobacco markets.

Supervisor: Professor C Van Walbeek (Economics)
Co-supervisor: Dr J Drope (American Cancer Society)

In Finance:
Dayne Lochner Morkel
Thesis Title: *Decoupling of corporate social investment in South Africa: optics over impact*

Dayne Morkel graduated first in his class, summa cum laude, with a Bachelor of Business Science (Finance) and honours degree and went on to complete his MBA with distinction. He is a CFA Charterholder and began his career as an Investment Banker at Morgan Stanley in New York, London, and Hong Kong.

Dayne Morkel's thesis investigates the validity of criticisms around the practice of corporate social investment (CSI) in South Africa. He combines interviews with leading academics and industry practitioners with an analysis of fourteen years of survey data on local CSI practices amongst top South African companies in order to identify both current challenges in this field as well as to propose solutions. He finds strong support for the idea that companies' CSI activities are driven mainly by regulation or self-interest and suggests that this misalignment between company motivations and the goals of CSI hampers the effectiveness of such initiatives. Consequently, he proposes improvements which may be of

particular value to industry practitioners in designing and operationalising their social investment initiatives.

Supervisor: A/Professor R Kruger (Finance and Tax)
Co-supervisor: A/Professor F Toerien (Finance and Tax)

In Information Systems:
Alexander Ekow Asmah
Thesis Title: *Towards the development of a COBIT 5-driven IT audit framework*

Alexander Asmah holds a BBA (Accounting) and MPhil (Information Systems) from the University of Ghana. He is a professional accountant and a certified information systems auditor with experience in IT Governance. Before joining the Department of Information Systems at UCT in 2017, he worked in the Banking industry.

Alexander Asmah's thesis focuses on the development of an IT auditing tool to guide the audit of IT Governance Practices in the Ghanaian Financial Sector. He investigates how auditors can use the tool to make recommendations that will improve the IT Governance maturity of their organisations. In the analysis, he adopts the gestalt approach to provide a holistic understanding of governance practices and IT Governance effectiveness. The study employs design science research which deploys a qualitative approach and adopts a quantitative approach in the evaluation of the tool. He finds that organisations that used the tool saw significant improvement in the maturity of several governance practices. He finds that for governance practices to create value, they should be implemented coherently to complement each other. The research produces an artefact that helps to reduce the detection risks of auditors by providing and audit scope for IT Governance audits.

Supervisor: Professor M Kyobe (Information Systems)

Laban Bagui
Thesis Title: *An analytical tale of the social media discursive enactment of networked everyday resistance during the #feesmustfall social movement in South Africa*

Laban Bagui holds BTech and MTech degree in Information Technology from the Cape Peninsula University of Technology. He joined the department of Information Systems at UCT in 2014 for his PhD studies. Before joining UCT, he worked as lecturer in e-Commerce.

Laban Bagui's thesis focuses on the contribution of social media to the discourse of resistance on social media during the #feesmustfall social movement in South Africa. He investigates what led to the rebellious discursive involvement of #feesmustfall proponents over the social media platform Twitter™. He ascertains the trade-off of empowerment and precariousness engendered by their use of the technology. A trade-off tributary to the existence of a communication space of autonomous resistance emerging from previous social interactions knitted by the social media platform allowed the acts of resistance of one individual to be carried by a plethora of acquiescing weak ties in re-tweets, pledges or hours of chats on more private platforms. He attributes the emergence of that social practice to a local socio-cultural momentum resulting from the combination of post- apartheid disenchantment and the bolstering opportune contingencies of international liberalism and ever-growing technological capabilities.

Supervisors: Emeritus A/Professor K Johnston (Information Systems)
Co-supervisor: A/Professor P Weimann (Information Systems)

Mohamed Abokor Elmi
Thesis Title: *ICT, the Somali diaspora and the stabilization of a failed state*

Mohamed Elmi completed his BA(Hons) qualification at the University of New Brunswick (Canada), and his MA at Saint Mary's University (Canada), and began full-time study at UCT towards his PhD in 2014.

Mohamed Elmi's thesis focuses on how Information Communication Technologies further economic and social development in Somalia. Somalia is an enigma in the international state system. The country has been embroiled in a civil war and has had no effective, functional state apparatus for almost thirty years. Despite the perceived chaos and violence associated with the country, there is evidence of structures that allow for markets to function and social services to be delivered. The Somali diaspora is one factor in supporting Somalia's economic and social system, as remittances pay for children's education, social services and provide investment funds for businesses. Moreover, this thesis demonstrates that in Somalia, the ICT sector has come to compliment Somali state institutions and social structures. This thesis illustrates how ICTs act as a primary steering media that has made it possible for Somalia to function despite conditions of failure and how Somali social systems have enabled a thriving ICT sector.

Supervisor: Professor O Ngwenyama (Information Systems)

In Organisational Psychology:
Yolandi Eloise Janse Van Rensburg
Thesis Title: *Development and validation of an implicit test of the HEXACO honesty-humility scale*

Yolandi-Eloise Janse van Rensburg holds a BMil and MCom degree in Industrial Psychology from Stellenbosch University. She joined the UCT School of Management Studies and the Department of Personnel Management, Work and Organizational Psychology at Ghent University (Belgium) in 2014 for her joint PhD study.

Yolandi-Eloise Janse van Rensburg's thesis focuses on novel approaches to measure personality traits relevant in the work context. In particular, she developed an implicit association test (IAT) to measure a person's honesty-humility, which is a personality trait relevant to integrity-related behaviour. Compared to standard self-report questionnaires, IATs tap into unconscious judgment processes and so are less fakable and subject to distortion. She conducts multiple validation studies (in

South Africa and Belgium) to evaluate the measurement and predictive properties of the IAT. This was done in comparison to a self-report measure of honesty-humility. Results showed the test measured honesty-humility as intended, but test scores did not predict student academic outcomes (including grade point average, counterproductive behavior, and cheating) better than a standard self-report inventory of honesty-humility. Her research is useful as it provides practitioners and academic researchers with an indirect measure of honesty-humility for use in future practice and research.

Supervisor: Professor F De Kock (Management Studies)
Co-supervisor: Professor E Derous (Ghent University, Personnel Management, Work and Organizational Psychology)

FACULTY OF HEALTH SCIENCES
(CEREMONY 2)

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 graduands and diplomates will be presented to the Presiding Officer by the 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.)

DECLARATION FOR HEALTH SCIENCES GRADUANDS

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.

NAMES OF GRADUANDS/DIPLOMATES

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

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.

HIGHER CERTIFICATE IN DISABILITY PRACTICE

Sheyaam Abrahams
Nomandla Benyane
*Zandile Dukumbana
Nozwelitsha Fokwana
Neziswa Soneta Gongotha
Ntombesine Hati
Ntombovuyo Monica Kiyane
*Tandolwethu Kotelo
Nopasika Maqungo
Hazel Rose Marco
Palesa Matete
Amanda Esethu Mazula
Ntombokuzola Nokuzola Mcitakali
*Nomathamsanqa Mehana
Ntombifuthi Sylvia Mfazwe
Wendy Mfeketho
Aviwe Cynthia Mpepanduku
Sinoyolo Mpinda
*Johanna Sibongile Msimango
Monica Mthabela
Sbongile Jacqueline Mtsi
Ongezwa Ondela Ndzuzo
Afkkile Nogaya
Unathi Nogaya
Nombuyekezo Nqeketo
Namhla Ntshinga
*Nozipho Nyakatya
Glenes Nongati Nyangiwe
Merle Okorie
Nosisi Ntombethemba Peter
Awethu Phaliso
Frieda Phillips
Christinah Sam
Lindeka Shasha
Yonela Simama
Esethu Lynette Sotu
Alicia Timm
Nolitha Zatu

ADVANCED DIPLOMA IN COSMETIC FORMULATION SCIENCE

*Hanneke Diedericks
Jodie Anne Heynes
Linda Kofi
Mlungisi Mkhize
Anele Mbali Ntuli (with distinction)
Mmapula Sharell Pale
Jasantha Singh (with distinction)
Iviwe Songo
*Mantombazane Xulu

DEGREE OF BACHELOR OF SCIENCE IN AUDIOLOGY

Vuyo Tshawekazi Bangilizwe
Luschano Bester
Tersia Davids (with distinction)
Kelly Deslynn De Freitas
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Engineering & the Built Environment:	Alison Emslie Lewis, PrEng BSc(Eng)Chem MSc(Eng) PhD *Cape Town* FSAIChE FSAIMM MASSAf FSAAE FIChemE
Health Sciences:	Carolyn Williamson (Interim), BSc(Hons) PhD *Cape Town* MASSAf FRSSAf
Humanities:	Shose Kessi, PDBA *Witwatersrand* BA(Hons) *London* MSc PhD *LSE*
Law:	Danwood Mzikenge Chirwa, LLB(Hons) *Malawi* LLM *Pret* PhD *UWC* Practitioner of the High Court of Malawi
Science:	Maano Freddy Ramutsindela, MA *UNIN* PhD *London* FSSAG

Dean of Higher Education Development
Alan Frank Cliff (Interim), HDE BA MEd *Cape Town* PhD *Auckland*

Director of the Graduate School of Business
Kosheek Sewchurran (Acting), BSc *Unisa* BSc(Hons) MSc *UKZN* PhD *Cape Town*

VISION AND MISSION
UNIVERSITY OF CAPE TOWN

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.

Welcome, Wamkelekile, Welkom – today is not the end of your relationship with the university 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/
- or by writing to the Alumni Office, UCT, PB X3 Rondebosch 7701
or by contacting us on (27) (21) 650 3746.

Your alma mater looks forward to welcoming you back, whether to a public lecture, a leadership forum, your class reunion, or just an informal call!