
GRADUATION CEREMONIES

JUNE 2015

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GAUDEAMUS

Gaudeamus igitur, juvenes dum sumus,
Gaudeamus igitur, juvenes dum sumus,
 Post jucundam juventutem, post
 molestam senectutem,
Nos habebit humus, nos habebit humus.

Ubi sunt qui ante nos in mundo fuere?
Ubi sunt qui ante nos in mundo fuere?
Vadite ad superos, transite ad inferos,
Quos si vis videre, quos si vis videre.

Vita nostra brevis est, brevi finietur,
Vita nostra brevis est, brevi finietur,
Venit mors velociter, rapit nos atrociter,
 Nemini parcetur, nemini parcetur.

Vivat Academia, vivant Professores,
Vivat Academia, vivant Professores,
 Vivat membrum quodlibet, vivant
 membra quaelibet,
Semper sint in flore, semper sint in flore.

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 COMMERCE AND LAW

ORDER OF PROCEEDINGS

Academic Procession.

(The congregation is requested to stand as the procession enters the hall and is invited to participate in the singing of Gaudeamus)

The Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Deputy Vice-Chancellor Professor C Soudien.

Dr R Ally will present Ahmed Kathrada to the Chancellor for the award of an honorary degree.

Professor H Corder will present Thulisile Nomkhosi Madonsela to the Chancellor for the award of an honorary degree.

Archbishop N Ndungane will present Dikgang Moseneke to the Chancellor for the award of an honorary degree.

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

The Vice-Chancellor will congratulate the new graduates and diplomates.

Professor Soudien will make closing announcements and invite the congregation to stand.

The Chancellor 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.)

The music for the recessional march has been composed by Emeritus Professor Klatzow.

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%.

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.

HONORARY DEGREE RECIPIENT

Ahmed Kathrada
LLD (honoris causa)

Ahmed Kathrada is a struggle leader and a human rights activist of exceptional integrity, committed to non-racialism and democracy.

Kathrada's career as a human rights activist began at the age of 12 when he distributed leaflets for the Young Communist League and was first imprisoned for his role as one of the 2000 volunteers who participated in the Passive Resistance Movement to oppose the Asiatic Land Tenure and Indian Representation Act in 1946.

Kathrada was a founding member of the Transvaal Indian Volunteer Corps and its successor, the Transvaal Indian Youth Congress. As the alliance between the African and Indian Congresses developed, Kathrada came into contact with Nelson Mandela, Walter Sisulu and other African leaders. As a leader of the Youth Action Committee, Kathrada worked tirelessly to promote joint action through the co-ordination of the youth wings of the African, Indian and other Congresses.

In 1955 he helped organise the multi-racial *Congress of the People* which proclaimed the *Freedom Charter*. In 1956 he was arrested for treason. The trial lasted from 1957 until March 1961.

Following a later sentence of "house arrest" he went underground but was arrested a year later with other leaders of the underground movement. He was charged, along with others, of organising and directing *Umkhonto we Sizwe* and was sentenced, at the Rivonia Trial, to life imprisonment. He spent a total of 26 years in prison, during which time he obtained two undergraduate degrees BA (Honours) in History and a BA (Honours) in African Politics.

In 2008, he established the Ahmed Kathrada Foundation to promote dialogue and strengthen the practice and understanding of non-racialism. Through his ongoing work, Ahmed Kathrada continues to defend the values for which he so tirelessly fought.

HONORARY DEGREE RECIPIENT

Thulisile Nomkhosi Madonsela

LLD (honoris causa)

Thulisile Nomkhosi Madonsela holds a BA in Law from the University of Swaziland and an LLB from the University of the Witwatersrand. Her career as a human rights lawyer, equality expert and policy specialist has included work in the trade union movement, in academia, and in the Constitutional Assembly in its drafting of the final Constitution of the Republic of South Africa. She participated in the drafting of numerous Bills in areas needing reform such as the right to equality, employment equity, customary law, local government, and the transformation of the composition of the judiciary. She has a longstanding involvement in organs of civil society including the South African Law Reform Commission

Thuli Madonsela's term as Public Protector has been characterised by a fearless and principled pursuit of probity, efficiency and honesty in government at all levels of the public administration. She has pursued both the letter and spirit of her mandate with enormous vigour, determination and sensitivity. She has succeeded also in spreading her message to the broader public, whom she primarily serves, through her responsibility to Parliament.

Through her work, Madonsela has unremittingly promoted the values of the Constitution and has pursued accountability without fear or favour. Despite intense attention and the stresses of office, she has retained both decorum and a sense of perspective to become a symbol of the fight against all abuses of power.

The University of Cape Town honours Thuli Madonsela for her courageous execution of the duties of office of Public Protector, and her contribution to achieving and maintaining the values of "accountability, responsiveness and openness" which underlie the constitution that South Africa.

HONORARY DEGREE RECIPIENT

Dikgang Moseneke
LLD (honoris causa)

Dikgang Moseneke, now the Deputy Chief Justice, was convicted of anti-apartheid crimes at age 15 and sentenced to ten years imprisonment on Robben Island. Whilst in prison he completed his schooling, and obtained a BA and BJuris. He later obtained an LLB. He founded his own firm and moved to the Bar in 1983. He played a central role in the drafting of the transitional Constitution of 1993, and was Deputy Chair of the Independent Electoral Commission for the 1994 election. In 2001 he was appointed to the High Court in Pretoria, and in 2002 to the Constitutional Court. In 2005 he was appointed Deputy Chief Justice.

Justice Moseneke has delivered a number of significant judgments on behalf of the Constitutional Court, including the judgment on e-tolling in Gauteng, and the appeal which set aside the establishment of the Hawks as insufficiently independent as a corruption-fighting agency.

Justice Moseneke has conducted himself with restraint and courtesy in fulfilling the duties of his office. On the bench, he is an eloquent and urbane participant in debates about the maintenance of the rule of law, democratic constitutionalism, and the transformation of our society in line with the values of the Constitution. He has demonstrated a commitment to justice and is fearlessly independent, especially in his defence of the independence of the judiciary – a core principle for any democracy.

MERITORIOUS PUBLICATION AWARD

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

Mineral Law: Principles and Policy in Perspective by Hanri Mostert

NAMES OF GRADUANDS/DIPLOMATES

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

1. FACULTY OF COMMERCE

*Acting Dean: Associate Professor
M Wormald*

POSTGRADUATE DIPLOMA IN ACCOUNTING

Simone Nicole Abramson
*Zaaida Achmat
Yeshvika Bahadur
*Christian Bestel
Nomzamo Bukani
*Matthew James Cilliers
*Alanna Olivia Dolby
*Doorgeshnath Domah
*Kevin Edwin Essery
Dylan Keegan Finch
Simnikiwe Gcayiya
*Robert Sean Getkate
*Kearon Gordon
Hae Jin Gu
*Mongiwehu Cyril Dion Gumbo
Alina Ndakoko Gustav
Sophia Innocentia Tuyakula
Hambuda
Someleze Noxolo Hamilton
*Amy Hulland
*Nikael Ismail
Mxoleli Jack
*Widaad Kader
Maria Tutaleni Konstantin
*Matthew Sean Larsen
Nakato Luzuka
Lufuno Magidi
Abulele Ncediswa Mahlulo
Nxalati Makhuvele
*Nathi Manjani
David Anthony Marshall
*Mologadi Kendall Masilela
*Unati Matshatshe
Glen McKnight
Temogo Edmond Mkhabela
Khutso Paul Mosotho
Murendeni Caron Mphephu
Zukile Mtotso
Mohammed Taahir Mukadam

*Landela Mviko
Natheerah Nacerodien
Raquel Naicker
Paballo Tshidiso Neer
*Maanda Lionel Netshivhale
Relebohile Angelinah Nkojoana
Phumeza Nkungwana
Raez Omar
Nevan Pillay
Rushanta Pillay
Viwe Vuyo Qalani
*Craig Arthur Rowan
Nicole Stephanie Claudia Sanne
Mmasape Monica Sekgololo
Moloko Kabelo Setsiba
*Michael Sherry
Jessica Anne Smith
Pratish Dulip Soni
*Ilhaam Surve
*Tshepo Emmanuel Tshotetsi
*Chandani Vallabh
Robin Margaret Watts
*Anna Irena Ziajka
*Nkosinathi Mary Zitha

POSTGRADUATE DIPLOMA IN ACTUARIAL SCIENCE

*Tawanda William Chigorimbo
*Shaun Michael Crossman
*Abdallah Moosa
Previn Pillay
*Marilize Van Niekerk

POSTGRADUATE DIPLOMA IN MANAGEMENT

In Accounting Conversion:
Ruffin Asuka
*Justin Robert May
Zoë Grace McNally
Nomfundo Pearl Setshedi

In Business and Systems Analysis:
*Dyke Thato Morake
*Amandla Mtimkulu
*Nosive Qinisile

In Entrepreneurship:
*Timothy Ralph Greeff
*Abdul Waheed Issufo
*Danielle Carey Smith
Bianca Visser

In Human Resource Management:
Crystal Blossom Louw

In Information Systems:
Darren Wayne Bartnicke
Butana Alfred Komane
*Karabo Lekoto
*Grandall Fraser Ludick
*Donique Keith Malgas
Kedibone Matsogo
Nozipho Mphahlwa

In Marketing:
Mark Lindbergh Dickinson
Edem Foli
Malope Tshepo Mogwaneng
*Lucky Bernard Ndebele

*In Purchasing and Materials
Management:*
*Mosalashuping Klaas Seelamo

In Tourism & Events Management:
*Nokuzotha Kunene

2. FACULTY OF LAW

Dean: Professor PJ Schwikkard

POSTGRADUATE DIPLOMA IN LAW

In Company Law:
*Cindy Michelle Bezuidenhout

In Environmental Law:
*Carlyn Brittany Frittelli
Tabassum Paleker

In International Law:
*Alexandria Gabriella Hotz

In Tax Law:
Phumelele Sibongile Buthelezi
*Dalene Doreen Dianne Christie
Noluthando Dyaphu
Nikita Alvina Koopman
*Hugo Malherbe
Tamarin Sacks
Monique Letoya Schoeman
Bronwyn Tracey Smith
*Louis Nicolaas van Zyl

3. FACULTY OF COMMERCE

*Acting Dean: Associate Professor
M Wormald*

DEGREE OF BACHELOR OF BUSINESS SCIENCE

In Actuarial Science:

*Alexander Avnit
*Paleo Kagisho Lesego Mokoena

In Management Studies:

Tisha Ann Benetti
Shuaib Hoosain Camroodien
Tinei Vincent Chagonda
Jill Alexandra Curr
*Christian Pieter de Vos
Thando Mnqobi Dlungwana
Bint Nur Ebrahim
Kyle Etsebeth
Diana Lynn Farrer
Kevin Kaminka Kabatsi
Phiwokuhle Asande Mahlabela
*Mthobiso Nkosiya Phendula
Mamba
Shabnam Iqbal Mohy-Ud-Din
Jediphanise Katlego Monnapula
Mareka George Montjane
Riah Ramparsad
Sesethu Zukisani Simelela
Lindsay Clare Welsh
Rufaro Abigail Whande

DEGREE OF BACHELOR OF COMMERCE

Jason Charles Andrews
Dora Otu Anwana
*Abigail Lyn Bayes
Saffron Beckley
Bryan John Booyes
Samantha Tanatswa Bopoto
Megan Sarah Buick
Jason Stephen Byrne
Jonathan David Campbell
Niza Katai Chipeta
Sherwyn Fredrick de Kock
Tracey Cole Douglas
Marc Christopher Drazdik
Brighton Mudzamiri Dube
Jabulile Alida Dube
Dillon Esterhuizen
Jason Dean Germishuys
Parusha Gihwala
Sheperd Gugu

Gayle Hendricks
Hsin Hu
*Renier Janse van Rensburg
*Raphael Alain Jetha
Paige Catherine Jenje
Trent-Ashley Jenkinson
Onalo Kelembe
Nthathi Augustine Khumalo
Lisa Gerardene Kinshella
Sinovuyo Sihle Koliti
Yaa Ampaw Koraheng
Menzi Gerald Koza
*Laura Kraus
Christoph Nicholas Kuhn
Adele Carol Langson
*Lesetja Samuel Mailula
Tlou Eliah Makgoatha
Bridgette Keletso Malepe
Phindile Portia Mashabane
Neo Goitsimodimo Matthews
*Christ Kaind Mbundj
Lawrence Jay Melman
Lunga Mhlongo
Siphiwe Meshack Mkhumbeni
*Omphemetse Keletso Mooka
*Nicola Grace Morkel
Boipelo Francinah Mothupi
Modiehi Maria Motuba
Asanda Mpumpula
Tinashe Ronald Mukarati
Kelly Maddried Nankali Muremi
Mukhethwa Jeoffrey Murodovha
Rumbidzai Vanessa Mutanhaurwa
Nonhlanhla Ntokozo Mvuyana
Nhlanhla Ndlovu
Bomikazi Miseka Ndovela
Andria Norval
Diana Daphene Nabutanda
Nyende
Tanya Odendaal
*Ayodele Adetola Ogunnoiki
*Emma-Jane Parry
Vnette Robyn Petersen
Siphosethu Asemahle Poswa
*Nicholen Nomakhephu Radebe
Mbavhalelo Radzilani
Kopano Rakhudu
*Nabeela Randeree
Elke Schwär
Itumeleng Ntahl Senaohana
Nomagugu Lorraine Sibutha
Jade Smuts
Yu Sun
Courtney Lee Tavener
Tyrone Blyth Toms
Sivuyisiwe Vika
*Dennis Were Wafula
Mark John Wilkinson

Tiffany Kayla Williams
Akhona Hendrietah Zembe
Baleseng Michelle Zinyana
Simangele Nomfundo Zulu

4. FACULTY OF LAW

Dean: Professor PJ Schwikkard

DEGREE OF BACHELOR OF LAWS

Ebrahim Abrahams
Martin-Michail Georgiev Alexidis
Muhammad Zuhayr Gamielidien
Anastasia Katts
Motselisi Grace Khiba
Jessica Kate Lobban Mann
Zanele Thokozani Masoek
Vanessa Nobukhosi Mlotshwa
Amy-Leigh Muir (cum laude)
Mimi Siphumelele Mvakali
Euraeffie Bentsiwa Oppon
Bilqees Parker
Allyson Petersen
Mpho Nontombi Raboane
Lerato Ramotsamai
Tanya Swanepoel
Megan Viljoen

5. FACULTY OF COMMERCE

*Acting Dean: Associate Professor
M Wormald*

DEGREE OF BACHELOR OF COMMERCE (HONOURS)

In Economics:

Lydia Aframea Boateng
*Vukile Minenhle Mhlongo

In Finance

Gciniwe Buyisile Khumalo

*In Financial Analysis & Portfolio
Management:*

Silvina Antunes
*David Donald Lawson Borthwick
Clive John Bruce
*(First class) Marc Brummer
*Zulekha Cara

Zvikomborero Christiaan Charimari
 Oliver Richard Cole
 Kieran Samuel Crowe
 (First class) Kirsten Ann Dolley
 * Richard Dudley
 (First class) Caitlin Candice Ferreira
 *Andrew Forsyth-Thompson
 *Ryno Fourie
 Dean Grant
 *Tamika Claire Haw
 *Ross Dean Hindle
 Garainesu William Hove
 Kevin Kageuka
 *William Anthony Leslie
 Gabrielle Elizabeth Linder
 (First class) Jonathan Brian Michalowsky
 *Timothy Colin Miller
 *(First class) Jesse Peter Mina
 *Bongeka Mjobo
 Teerera Mlambo
 Kefiloe Monaheng
 (First class) Thato Brenda Mosadi
 (First class) Greici Müller
 *Tendayi Norreen Mutembwa
 *Vivienne Tafadzwa Mutembwa
 Tanyaradzwa Stephanie Ruby Muzvidziwa
 Irene Juliet Namutebi
 *(First class) Bafikile Virginia Ndhlela
 Mbalenhle Ndlovu
 *Dale Albert Phillip Niemand
 *Michael Georg Nolden
 Mcebo Siphweyinkosi
 Siyabonga Ntombela
 Sian Robyn Otridge
 Ashiq Hoosain Mohammed Parker
 Brendan Gwynne Prettejohn
 *Pierre-Jean Prinsloo
 *Ntseliseng Qopana
 (First class) Angela Jane Ruck
 *Matthew Campbell Shaw
 Tristan John Shaw
 (First class) Jeanette Alison Taylor
 *Amy Theunissen
 Daniel Benjamin Thomson
 Andrew Charles Tucker
 *Masego Pupo Valela
 *(First class) Shan Weeber
 (First class) Tyrone Cecil Williams
 Roxanne Wylie
 Natalia Maria Zimmermann

In Information Systems:
 Yamkela Mehlomakulu
 *Sechaba Mofokeng
 *Zamantshinga Zethu Mtshali

In Organisational Psychology:
 Linda Florence Ndlovu
 *Elizabeth Zaranyika

In Taxation:
 *Susan Margaret Blake
 *Brian Kurt Dedekind
 Sean Tomas Duraes
 Megan Ann Japhtes
 Diara Jugdhaw
 *Malebo Alice Maloka
 *Ndabenhle Junior Ngulube
 Boniswa Elsie Nhlapo
 (First class) Ellen Peens
 Mbal'Enhle Radebe
 *Zayaan Saban
 *Josua Nel Schoeman
 Buchule Sibaca
 *(First class) Janel Strauss

In Tax Opinion and Consulting
 Relton Fred Booyen

In Tax Technical and Compliance:
 Jeanique Daryl Davidson
 Rachel Maswanganyi
 *Mamarumo Asnath Mononela
 Monika Ndemujandjela Nekwaya
 Nomfundo Pearl Setshedi

6. FACULTY OF LAW

Dean: Professor PJ Schwikkard

DEGREE OF MASTER OF LAWS

In Commercial Law:
 Marang Akua Asafo-Adjei
 Adeola Falilat Awojobi
 Roxanne Blumenthal
 Mwewa Chola
 Ruth Dinah Gondwe
 Nomalanga Pearl Gule
 Melissa Memory Gundani
 Michael Kariuki Kigomo
 Abigail Machine
 Rocker Aron Mandipe
 Daniel Tawanda Matawu
 *Bibiana Mwansa Mwape

Wilson Ngoma
 (With distinction) Juan-Pierre Reineck
 Nomxolisi Saneliso Siyakatshana
 Taiwo Oluseyi Sodeinde
 Lindsey Thorpe
 (With distinction) Marius Weyers
 *Muziwakhe Simphiwe Zwane

In Constitutional & Administrative Law:
 Fridah Malindima Daka
 Michelle Leigh Horak
 *Benjamin Gerhard Maier
 *Mphati Ntebaleng Mutloane

In Criminology, Law and Society:
 *Rudo Runako Chitapi

In Dispute Resolution:
 *Freda Moraa Nyakundi
 Maphatela Ernestian Teffo

In Environmental Law:
 Natalia Ndatilohamba Heita
 Danjelle Midgley

In Human Rights Law:
 Rachel Bukasa
 Mercy-Grace Lameck Kisinza
 Ruth Nekura Lekakeny
 Patience Ratidzo Madamombe
 Godknows Mudimu

In Intellectual Property Law:
 *Thomas Fuhrmann
 (With distinction) Yvonne Alexandra Kisuule
 Perpetua Njeri Mwangi

In International Law:
 *Kate Suzanne Dodgson
 *(With distinction) Evelyn Kerubo Mogere
 *Anna Mwitwa
 *Michael Kipkemei Sang

In International Trade Law:
 Nancy Cairncross-Chinnapyele
 *Marie Providence Ntagulwa
 Mugangu

In Labour Law:
 *Loness Khembo

In Marine and Environmental Law:
 Rose Jeptoo Birgen
 Sarika Chetty
 *Clarissa Ferreira

In Private Law:
(With distinction) Samantha
Smith

In Shipping Law:
*Simon Mark Balmuth
Vanessa Doble

In Tax Law:
*Salome Massaga

DEGREE OF MASTER
OF PHILOSOPHY

In Environmental Law:
*Kirsten Dea Day
Deon Bruce Jeannes

In Human Rights Law:
*Theresa Alfaro-Velcamp

In Intellectual Property Law:
Kim Tracy Lamont

In International Law:
*Louisa Omolara Abike Farinde
*Caroline Frances Timoney

In Labour Law:
*Wesley Maraire
Patrick Alexander Rezandt

In Marine and Environmental Law:
Simon Njock Eno
Adri Meyer
Samantha Hayward Watts

In Social Justice:
Samantha Jane Waterhouse

In Tax Law:
(With distinction) Christopher
Eric Guattari-Stafford
Siyabulela Mabusela

7. FACULTY OF COMMERCE

*Acting Dean: Associate Professor
M Wormald*

DEGREE OF MASTER
OF BUSINESS SCIENCE

In Finance:
Dario Angelo de Wet

DEGREE OF MASTER
OF COMMERCE

In Applied Economics:
Kezia Lilenstein (with distinction
in the dissertation and the
degree with distinction)

Samson Mbewe
*Caitlin Rose Miles
(with distinction in the
dissertation and the degree
with distinction)
Lerato Madiseng Shai

In Economic Development:
*Benjamin Mark Jourdan
Sean Louis Kirsten
Haika Andrew Mbwambo
Amelia Midgley (with distinction
in the dissertation and the
degree with distinction)
Claire Pengelly (with distinction
in the dissertation and the
degree with distinction)
Kavisha Pillay
*Neema Siama Risha
Christopher Rooney
*Conrad Hugo van Gass (with
distinction in the
dissertation)

In Economics:
Christopher Scott Bova
*Matthew Hawinkels
(with distinction in the
dissertation)
(With distinction) Nikol Anuschka
Hearn
*Rabson Kanyinji
Mpho Mamokete Rapapali

In Financial & Risk Management:
*Oluseyi Joseph Ajewole
Adeniyi Oluwabusayo Ashaolu
Alun Rhys Darwood

*Dhanyal Davidson
*Maryke Louise Ellis
*Lawrence Wing Kit Ho
*Stuart Edward Noland
(with distinction in the
dissertation and the degree
with distinction)
Colin Charles Smith
*Willem Abraham van der
Westhuizen

In Financial Management:

*Vishal Bhikha
Michelle Chinhema
Jolandi Gevers
*Kyle Stephen Graham
(with distinction in the
dissertation and the degree
with distinction)
*Lisa Anne Montgomery
Itumeleng Unathi Mothibeli
Carl Werner Opperman
*Tim Prüssing (with distinction in
the dissertation and the
degree with distinction)
Elton Mark Pullen

In Information Systems:

Diné Bennett
Jerome Terence Corns
(with distinction in the
dissertation and the degree
with distinction)
Mogamat Kaashief Hartley
Henri Knoesen
Lho Nosipo Noruwana
Alister Neville Payne
Saba Ryan Rahimi
Khangelani Vuke Vuke (with
distinction in the
dissertation)

In Investment Management:

James Reid Campbell
Olwethu Cata
Richard Michael du Plessis
Stephan Bernard Hartzenberg
(with distinction in the
dissertation and the degree
with distinction)
*Tinodiwanashe Caroline Kujenga
Blessing Tendeukai Munyebvu
*Pavo Giovanni Viotti
(with distinction in the
dissertation)
*Honghong Zhang

In Organisational Psychology:
Bridgette Kew

DEGREE OF DOCTOR
OF PHILOSOPHY

*Andre Karl Hofmeyr
Thesis title: *The economics
of addiction: an experimental
investigation*

In South African Taxation:
Christiaan Pieter Basson
Monique Adrienne Ritchie (with
distinction in the
dissertation)

In Economics:
Neil Gregory Balchin
Thesis Title: *Investigating Product
Market Integration in the Southern
African Development Community:
A Price-Based Approach*

Andre Hofmeyr holds a BSocSc and an MCom in Applied Economics from UCT. He was recruited into UCT's behavioural economics lab, now the RUBEN lab, at the first opportunity and has been an integral part of it ever since.

In Taxation:

*Jakobus Petrus Strumpher
*Johannes Murray van Schalkwyk

Neil Balchin has a BCom (Philosophy, Politics and Economics) and BCom (Honours) in Economics degrees from the University of Cape Town, together with a MCom in Economics from the same institution.

Andre Hofmeyr's thesis emerged from work done on a series of grants over several years from the South African Responsible Gambling Trust. Addiction is an ideal puzzle for economic theory: why do most addicts expend resources to acquire their targets of addiction while simultaneously paying real costs to try to reduce or limit their consumption of these goods? This thesis is primarily concerned with methodological and statistical issues at the boundary between economics and psychology as these bear upon developing a general, unified understanding of addiction. Research into the behavioural aspects of addiction has been dominated by psychologists, and a number of economists have followed their methodological lead. Andre Hofmeyr's thesis shows how tools from experimental economics and econometrics that have been under-used in addiction studies potentially contribute to a more accurate and precise picture of the phenomenon. A set of experimental and analytical measures, including a full information maximum likelihood statistical approach, are developed to compare the risk and time preferences of addicts and non-addicts.

DEGREE OF MASTER
OF PHILOSOPHY

In Demography:
Elton Emmanuel Mukonda

Neil Balchin's thesis extends the price-based empirical literature on product market integration to the Southern African Development Community (SADC). The analysis draws on a unique dataset of retail product prices in Botswana, Malawi, South Africa and Zambia to examine the extent to which product prices are integrated within and between these countries, and to estimate the effects of national borders on price dispersion in the region. Neil Balchin critically evaluates the standard methodology used to estimate border effects and, using a quantile regression approach, highlights several sample selection biases which affect standard estimates. He implements novel extensions to the quantile regression methodology that allow for more precise estimation of average and individual border effects in the SADC. The thesis also unpacks the contribution of preferential tariffs to the South Africa-Zambia border effect. The thesis provides important insights into the links between trade policy and product market integration in Africa.

Supervisor: Professor D Ross
(Economics)

In Mathematical Finance:
Nikhil Amaldas Hutheram
Kathryn Marie Janssen
*Melusi Manqoba Mavuso (with
distinction in the
dissertation)
Zachry Steven Pitsillis
(with distinction in the
dissertation and the degree
with distinction)

Supervisor: Professor L Edwards
(Economics)

Co-supervisor: Professor G
Harrison (Economics)

In People Management:
Richard Petrus Black
Jenine Elizabeth Henriques
Margien Elisabeth Matthews
(with distinction in the
dissertation)

In Programme Evaluation:
(With distinction) Leanne Adams
Tracey Rose Appollis
Rethar Jansen
Felix Khembo
Soraya Natalie Lester (with
distinction in the dissertation
and the degree with
distinction)
Shariefah Mahomed
Constance Mubekapi
Lucina Jacqueline Reddy
Deborah Stacey Schkolne (with
distinction in the dissertation
and the degree with
distinction)

Co-supervisor: Dr A Sundaram
(Economics)

*(With distinction) Sarah Jean
Strydom

Chijioke Osinachi Nwosu
Thesis Title: *An analysis of the relationship between health and the labour market in South Africa*

Chijioke Nwosu holds a BSc (First Class Hons) in Economics from the University of Nigeria, Nsukka and an MCom in Health Economics from UCT. His PhD thesis is borne out of a passion for evidence-based policy on the role of health on economic growth in Africa.

Chijioke Nwosu's thesis analyses the relationship between health and the labour market in South Africa. This is important given the critical role that both health and the labour market play in engendering economic growth. South Africa is an interesting case study as the country suffers from both a high disease burden and low labour force participation rates. In addition to ascertaining the impact of health on labour force participation, the thesis compares the relative strengths of the relationship between physical and mental health and earnings. Finally, the thesis looks at disability/impairment-related wage discrimination, adding to the existing literature on labour market discrimination that has tended to focus only on race- and gender-based discrimination.

Supervisor: Professor I Woolard (Economics)

Co-supervisor: A/Professor P Piraino (Economics)

*Alexander Schuhr
Title: *Regulation of choice behaviour: an experiment investigating the hypothesis that people bundle sequences of expected rewards*

Alexander Schuhr was born in Munich (Germany), where he earned a master's degree in Political Science. During his studies he became interested in the Economics and Psychology of individual decision-making. Subsequently, he decided to pursue a PhD in Economics, with emphasis on experimental work.

Alexander Schuhr's thesis discusses reward bundling as a process that enables decision makers to self-regulate their choice behavior. Most empirical work on intertemporal choice has focused on analyzing impulsive choice. Less effort has been dedicated to explanations of how individuals manage to overcome self-defeating behavior. This thesis evaluates the theory of reward bundling. It presents a set of econometric tools that can be employed to investigate whether actual choice behavior is consistent with the theory of bundling. It reports an experiment with human subjects. Reward bundling has been demonstrated in experiments with pigeons and rats. However, no empirical study using salient rewards and sound econometric model estimation has ever been carried out with humans. The present experiment is, therefore, the first that meets the methodological standards of experimental economics and finds evidence consistent with the presence of reward bundling.

Supervisor: Professor D Ross (Economics)

Co supervisor: Professor G Harrison (Economics)

In Finance:
Phillip Gerhard de Jager
Thesis Title: *Fair value accounting in South African Banks: Financial stability implications*

Phillip de Jager has BAcc and BAcc Honours degrees from the University of Stellenbosch, a BCom Honours degree from UNISA, an MCom degree from the University of Johannesburg and is a CA(SA). His doctoral thesis draws on his background in accounting, economics and banking.

The first part of Phillip de Jager's article-based thesis investigated how fair value accounting was actually used by South African banks. The evidence indicated that fair value accounting materially impacts the profit and loss and regulatory capital of those banks. This fair value accounting influenced component of regulatory capital proved to be risky. The second part of the thesis developed an analytical model that links together fair value accounting, bank capital regulation and economic outcomes. The model showed fair value accounting to be at the centre of feedback processes that can weaken the banking system during the economic upswing. The results imply that conservative accounting standards in the stead of standard fair value accounting standards for systemically important banks would make the banking system safer.

Supervisor: A/Professor G Holman (Finance & Tax)

8. FACULTY OF LAW

Dean: Professor PJ Schwikkard

DEGREE OF DOCTOR OF PHILOSOPHY

In Commercial Law:

Meryl Candice du Plessis

Thesis title: *Access to employment for disabled people: The intersections of social understandings of disability, substantive equality and access to social security*

Meryl du Plessis was awarded the degrees BCom LLB (with distinction) LLM (with distinction) by Rhodes University. She has been a lecturer in Public Law at the University of Cape Town since 2008.

Meryl du Plessis's thesis examines the intersections of understandings of disability that emphasise its social contingency and South African jurisprudential debates on equality and social security. After analysing theoretical debates in the field of disability studies and their relevance to employment equity law, she concludes that, while social understandings of disability emphasise structural changes that would ensure access to work for people with disabilities who can and want to work, the positive legal obligations imposed on social actors are limited. Meryl du Plessis proposes that one way of addressing these limitations may be to highlight the state's positive obligations in respect of work inequality. While this strategy has its limitations, it can improve information gathering in respect of disabled work seekers; facilitate support for those who experience discrimination; compel government to improve employment equity regulation; encourage an holistic approach to social security that recognises the interrelationship between social assistance and unemployment protection; and promote support

for disabled persons who work outside the formal labour market.

Supervisor: Professor A Rycroft (Commercial Law)

In Commercial Law:

Kathleen Idensohn

Thesis Title: The Basis and Boundaries of Employee Fiduciary Duties in South African Common Law

Kathleen Idensohn has BA and LLB degrees (cum laude) from UCT, and an LLM from Cambridge University. She is an Advocate of the High Court of South Africa. She has lectured various commercial law subjects at UCT and in the UK and is currently a member of UCT's Department of Commercial Law.

Kathleen Idensohn's thesis provides an analysis of South African common law fiduciary duties of loyalty with comparative reference to the positions in English and Canadian law. It begins with a critical examination of the general principles that govern the incidence, nature, purpose and operation of those duties; how they differ from other legal duties; and the judicial and academic debates that surround them. It then considers the application of those principles and duties to relationships of employment in order to determine the basis and boundaries of the fiduciary duties of 'ordinary' employees. Finally, it suggests a set of principles for the future application and development of fiduciary duties in South African law, both generally and more specifically in relation to employees.

Supervisor: Professor A Rycroft (Commercial Law)

In Criminal Justice:

Esther Gumboh

Thesis Title: *A critical analysis of the impact of the Bill of Rights on punishment in Malawi*

Esther Gumboh has a LLB Hons from the University of Malawi and a LLM in Criminal Justice from the University of Cape Town.

Esther Gumboh's examines the extent to which the regime for and practice of punishment in Malawi reflects international and constitutional standards pertaining to the aims, forms, practice and procedures of punishment. Malawi's 1994 Constitution marked a clear intention to overthrow the retributive and deterrent-based system of punishment by recognising the humane application of the law and administration of justice as a foundational principle, thus recognising the key human rights related to punishment and according international law a generous role to play in the legal system. Ms Gumboh's thesis draws on theories of punishment and international law's jurisprudence on punishment to create a model of punishment that the Malawian Constitution envisions. The thesis finds that while some significant law reforms have taken place since 1994, the punishment regime and practice in Malawi has remained largely retributive and deterrent, attuned to fulfil societal objectives. Thus, it has paid insufficient attention to fulfilling the rehabilitative ideas envisaged by the Constitution and respecting the circumstances and rights of the offender.

Supervisor: Professor DM Chirwa (Public Law)

In Criminology:
Juliet Marie Berg
Thesis Title: *Polycentric Security
Governance: Legitimacy,
Accountability, and the Public
Interest*

Julie Berg has a BSocSc (Philosophy), a BSocScHons (Criminology) and an MSocSc (Criminology, with distinction), all from the University of Cape Town.

Julie Berg's thesis examines how power is constituted in hybrid polycentric systems of security governance. In particular, the thesis explores how legitimacy – as a form of power – is configured in Improvement Districts in South Africa, with a specific focus on three ways by which it is gained – through promoting public participation in decision-making, through policing nodes being transparent and accountable and through the delivery of effective security for the public good. The empirical findings of the thesis show that legitimacy may originate from multiple sources and that state and non-state policing nodes within polycentric security governance systems may undermine, enhance and/or co-produce democratic participation, accountability and security for the public interest. The thesis both challenges the normative tendency to associate democratic legitimacy with the state and contributes to the pressing question of how to theoretically account for the empirical reality of polycentric security governance systems.

Supervisor: Emeritus Professor CD Shearing (Public Law)

FACULTIES OF ENGINEERING & THE BUILT ENVIRONMENT AND HEALTH SCIENCES

ORDER OF PROCEEDINGS

Academic Procession.

(The congregation is requested to stand as the procession enters the hall and is invited to participate in the singing of Gaudeamus)

The Vice-Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Deputy Vice-Chancellor.

The graduands and diplomates will be presented to the Vice-Chancellor by the Deans of the faculties.

The Vice-Chancellor will congratulate the new graduates and diplomates.

The Deputy Vice-Chancellor will make closing announcements and invite the congregation to stand.

The Vice-Chancellor 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.)

The music for the recessional march has been composed by Emeritus Professor Klatzow.

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 HEALTH SCIENCES

MBCHB courses are weighted differently, with the first three years (preclinical examinations) counting 110 out of a total of 252 points, and the final three years (clinical examinations) counting 142 out of 252.

The degree may be awarded with

Distinction in the preclinical examinations, where the student scores at least 80% of the maximum points for the preclinical examinations; and/or

Distinction in the clinical examinations, where the student scores at least 75% of the maximum points for the clinical examinations; and/or

Distinction in the final clinical examinations, where the student scores at least 75% of the maximum points in the sixth year examinations; and/or

Honours, where the student achieves an overall point score of at least 75% of the maximum overall points; or

First class honours, where the student achieves an overall point score of at least 85% of the maximum overall points.

The degrees of BSc (Audiology) and BSc (Speech-Pathology) may be awarded with distinction for a weighted average of at least 75% across all four years of study.

The degree of BSc (Occupational Therapy) may be awarded with distinction for a weighted average of at least 75% for all courses from the first to the fourth year of study across all four years of study.

The degree of BSc (Physiotherapy) may be awarded with distinction for an average of 75% across all four years of study.

The gold medal is awarded to the student in each degree programme who achieves the highest overall grade point average across all the years of his or her degree, and a weighted average of at least 75% across all years of study.

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

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

1. FACULTY OF HEALTH SCIENCES

Acting Dean: Professor GD Hussey

Before presenting the graduands, the Dean will invite all graduating students in the Faculty to stand and to make the Faculty Declaration (Page 21). 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 COMMUNITY EYE HEALTH

*Sefakoane Letela
*Sebina Ithabeleng Mokela

POSTGRADUATE DIPLOMA IN HEALTHCARE TECHNOLOGY MANAGEMENT

*(With distinction) Jaison Tinashe Chimbindi
*Dawya Othman Ibrahim (With distinction) Graham Rudolph Jaftha
*Godfrey Mutabuzi Katabaro Ntebaleng Florence Matlapeng
*(With distinction) Blessed Mutembedza
(With distinction) Patience Zamandabezitha Ntamane

POSTGRADUATE DIPLOMA IN HEALTH PROFESSIONAL EDUCATION

*Tonny Zana

POSTGRADUATE DIPLOMA IN MATERNAL AND CHILD HEALTH

Delphine Sih Awah
*Raphael Mlauzi
*Diana Sibongile Ngwenya
*Charity Zvandaziva

POSTGRADUATE DIPLOMA IN NURSING

In Child Nursing:

*Charmaine Cornelius

In Critical Care Nursing (Child):
Mary Abels

POSTGRADUATE DIPLOMA IN PESTICIDE RISK MANAGEMENT

*Tano Isack Hangali

POSTGRADUATE DIPLOMA IN PSYCHOTHERAPY

*Stacey de Kock

DEGREE OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

Khoza Zanethemba Mabeta
*Masekamane Michael Mikia Ramothwala

DEGREE OF BACHELOR OF SCIENCE IN PHYSIOTHERAPY

Bulelwa Gqiza

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS

In Pharmacology:
Tammy Krige

DEGREE OF BACHELOR OF SCIENCE IN MEDICINE (HONOURS)

In Exercise Science (Biokinetics):
Njabulo Fortune Mhlongo

2. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor AE Lewis

POSTGRADUATE DIPLOMA IN ENGINEERING MANAGEMENT

*Sophie Elizabeth Xaba

POSTGRADUATE DIPLOMA IN PROJECT MANAGEMENT

*Craig Donovan Moyce
*Muhammad Alli Naroth Masibonge Tshiki

DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES

Bianca Dèonnella Carosini
Melanie Loser

DEGREE OF BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES

Teodor Roelofse

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

In Civil Engineering:

Jonathan Anthony Galante
*James Duncan Houston Sonwabile Madubela
*Isthandile Sesiyethemba Nojiyeza Thembinkosi Mthokozisi Silinda

In Electrical Engineering:

Connor Leonidas Collocott
Blessing Tendai Katsande
Samuel Seemole Mponwana

Abulela Ntoyaphi Thabani Vincent Shibe	DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN PROPERTY STUDIES	<i>In Electrical Engineering:</i> *Mahmud Mohammed Amin
<i>In Electrical and Computer Engineering:</i> Adam Ilan Todes	Bibi Aysha Zoutenberg	<i>In Energy Development Studies:</i> Adelia Filosa Francisco Chicombo Letsiwe Thulisile Sibongile Dlamini
<i>In Electro-Mechanical Engineering:</i> Mokwena Abram Mokhabela	DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN QUANTITY SURVEYING	<i>In Nuclear Power:</i> Natalie Beth Hide
<i>In Materials Engineering:</i> *Lucien Ignatius Paulsen	Rafe Colin MacDonell	<i>In Transport Studies:</i> Donald Kevin Cupido *Nicola Viljoen
DEGREE OF BACHELOR OF SCIENCE IN PROPERTY STUDIES	DEGREE OF MASTER OF ARCHITECTURE (PROFESSIONAL)	<i>In Urban Infrastructure, Design & Management:</i> *Moses Gathua Kimani
Beryl Maluleke	*Linka Prosch	
DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES (HONOURS)	DEGREE OF MASTER OF ENGINEERING	DEGREE OF MASTER OF SCIENCE IN ENGINEERING
*Lauren Jane Herring *Maximillian Melvill *Bayonle Olanrewaju Windapo	<i>In Civil Infrastructure Management and Maintenance:</i> John Bockarie Kamara Emmanuel Jenkeri Okwori	<i>In Chemical Engineering:</i> Tapiwa Chivengwa Joanne Crimes Darin Selwyn Dickson Zethu Dlamini Vuyiswa Dube *(With distinction in the dissertation) Dirren Govender Onyinye Judith Iroala *Fadzai Kadzinga Monica Shamvuse Kalichini Makhosazane Chucky Kunene Cong Liu *Timothy John Magezi Ndamira *Tafadzwa Marozva Kabwe Julianna Musonda *Faustine Ngoroma *Steven Nkadameng Edward Michael Peters (With distinction in the dissertation and the degree with distinction) Keshree Pillay Mamohlomi Senoko Melissa Khulekani Lingani Ncube Sikosana Courtney Thompson Hundzukani Vukeya
DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN CONSTRUCTION MANAGEMENT	<i>In Radar & Electronic Defence:</i> Justin Louis Coetser	
*Julias Thomas Baloyi Willem-Petrus Pretorius	<i>In Structural Engineering & Structural Materials:</i> *Oliver Benjamin Baum Kosikee Adimchinobi Emma-Iwuoha	
DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN GEOGRAPHICAL INFORMATION SYSTEMS	<i>In Transport Studies:</i> *Jarendra Reddy	
*Vuyisile Lefosa Roshuma Mudanalwo Mapula Millicent Ramatonono	DEGREE OF MASTER OF PHILOSOPHY	
	<i>In Architecture & Planning:</i> Hylton Eugene Mitchell Stiliani Sofia Papanicolaou	
DEGREE OF BACHELOR OF SCIENCE (HONOURS) IN MATERIALS SCIENCE	<i>In Conservation of the Built Environment:</i> Berendine Gesie Irrgang (With distinction in the dissertation and the degree with distinction) Bryan Peter Johann Wintermeyer	
*Lungile Happiness Khuzwayo *Andrew Ndlovu		

<i>In Civil Engineering:</i> Olukayode Olawale Alao *Nicholas David Bailey (With distinction in the dissertation and the degree with distinction) Nicholas Bester Friedrich Chizhyindiswe Chitauka Gavin Chad Golden *(With distinction in the dissertation) Rahil Malde Molefe Donald Tsoana	DEGREE OF MASTER OF SCIENCE IN PROJECT MANAGEMENT *Cameron Fredericks Tafadzwa Shereni Jeandre Charisse Williams	DEGREE OF MASTER OF MEDICINE IN ANATOMICAL PATHOLOGY Raveendra Sookhayi
<i>In Electrical Engineering:</i> Denver Dane Abrey Joshua Adejare Adeleke Oluwadamilare Daniel Adeyemo Ojuetimi Ifedayo Akinsolu Ayodeji Stephen Akinyemi Ereola Johnson Aladesanmi *Abdullah Algafsh *Kulisha Wayna Appadoo Matthew Roy Cawood Stefano De Grandis Thomas Andrew Main Ra'Eesah Mangera Lindelweyizizwe Siziwe Manqele Matteo Francesco Milandri Sabatha Mthwecu *Shaun Robert Mulligan Ellen Shezi Al'louise Al'bonita van de Venter	DEGREE OF MASTER OF SCIENCE IN PROPERTY STUDIES Robert Chipanga Che Wei Lin Petrus Terblanche Pienaar Albert Reitzema Lyle Jan Wilkens	DEGREE OF MASTER OF MEDICINE IN CARDIOTHORACIC SURGERY Jithan Jacob Koshy
<i>In Geomatics:</i> Hunadi Millicent Mokgalaka Stephen Graham Wessels	3. FACULTY OF HEALTH SCIENCES <i>Acting Dean: Professor GD Hussey</i>	DEGREE OF MASTER OF MEDICINE IN DERMATOLOGY *(With distinction in the dissertation) Khadija Ahmed Shebe
<i>In Materials Engineering:</i> Nadeem Gamiet Chase Kennedy Hyde Rutendo Matengaifa	DEGREE OF MASTER OF MEDICINE <i>In Anaesthesia:</i> Rowan Alexander Duys (With distinction in the dissertation) Michael Ross Hofmeyr Petrus Jacobus Janse van Rensburg (With distinction in the dissertation) Johannes Josias Nicolaas van der Walt	DEGREE OF MASTER OF MEDICINE IN DIAGNOSTIC RADIOLOGY *(With distinction in the dissertation) Jeannine Margaret Owen
<i>In Mechanical Engineering:</i> Aidan Lloyd Ehrenreich Bevan Walter Stewart Jones *Mu'Azzam Kippie Thomas James Mathew Rudzani Allan Mutshinya *Rahendra Laljith Neerputh Matete Kevin Thakaso *Gideon Ferdinand Volschenk	<i>In Family Medicine:</i> *Sarojini Marimuthu *Salma Abdulkadir Moolla <i>In Paediatric Surgery:</i> *(With distinction in the dissertation) Mugambi Stanley Machoki <i>In Psychiatry:</i> *(With distinction in the dissertation) Kim Vrba	DEGREE OF MASTER OF MEDICINE IN FORENSIC PATHOLOGY Sairita Maistry DEGREE OF MASTER OF MEDICINE IN MEDICINE *Katherine Rae Antel (With distinction in the dissertation) Richard Gray Court *(With distinction in the dissertation) Shikar Mothilal Luvuyo Mzingeli
<i>In Water Quality Engineering:</i> Rudi Frances Botha (With distinction in the dissertation and the degree with distinction) William Ying Xin Wu		DEGREE OF MASTER OF MEDICINE IN OBSTETRICS AND GYNAECOLOGY *Candice Jane Morrison

DEGREE OF MASTER OF MEDICINE IN OTORHINOLARYNGOLOGY	Amy Lee Roberts (With distinction) Simone Tredoux	DEGREE OF MASTER OF PHILOSOPHY IN EMERGENCY MEDICINE
(With distinction in the dissertation) Pedro Eduardo Vilas-boas Monteiro (With distinction in the dissertation) Hisham Wasl	<i>In Developmental Paediatrics:</i> *(With distinction in the dissertation) Ojombo Gbemisola Boyede	<i>In Patient Safety & Clinical Decision-Making A:</i> Rene Elaine Du Toit
DEGREE OF MASTER OF MEDICINE IN PAEDIATRICS	<i>In Disability Studies:</i> Bryson Nsama Kabaso	DEGREE OF MASTER OF PUBLIC HEALTH
*Amy Elizabeth Reid	<i>In Liaison Mental Health:</i> (With distinction in the dissertation) Kerry-Ann Louw	Theunis Hurter (With distinction) Mieke Willems
DEGREE OF MASTER OF MEDICINE IN PSYCHIATRY	<i>In Maternal & Child Health:</i> Packson Tsiku *(With distinction) Faye Bronwyn Tucker	<i>In Clinical Research:</i> *(With distinction) Kirsten Leah Reichmuth
(With distinction in the dissertation) Rasmita Ori	<i>In Neonatology:</i> *Moses Oringo Lango *Victoria Kirabira Nakibuuka	<i>In Epidemiology:</i> *(With distinction) Molly Bernstein (With distinction) Shafiya Yacoob Coovadia *Emilee Cara Smith
DEGREE OF MASTER OF MEDICINE IN PUBLIC HEALTH MEDICINE	<i>In Paediatric Pathology:</i> *Patricia Opon Okiro	<i>In Health Economics:</i> Arnold Mulenga Isaac Mwase Patricia Pariza Ravi Pillay
*(With distinction in the dissertation) Vivien Essel *Sikhumbuzo Advisor Mabunda *(With distinction in the dissertation) Tolu Oni	<i>In Paediatric Rheumatology:</i> *(With distinction in the dissertation) Lawrence Owino Okong'o	<i>In Health Systems:</i> *Jessica Amelia Barker Katherine Mahria Campbell Brittin Denice Cyprian Kamugumya (With distinction) Eleanor Beth Whyle
DEGREE OF MASTER OF MEDICINE IN SURGERY	<i>In Palliative Medicine:</i> (With distinction) Deborah Lee Miller *Cara Robertson	DEGREE OF MASTER OF SCIENCE IN AUDIOLOGY
*(With distinction in the dissertation) Gideon Francios Malherbe *Quintin Keith Moodie	<i>In Public Mental Health:</i> *Desalegn Bekele Merga	Elfriede Hagedorn Primrose Tinashe Nhokwara
DEGREE OF MASTER OF PHILOSOPHY	<i>In Sport & Exercise Medicine:</i> Anri Van Tonder	DEGREE OF MASTER OF SCIENCE IN MEDICINE
<i>In Biokinetics:</i> (With distinction in the dissertation) Lindokuhle Pellegreen Phiri	<i>In Sports Physiotherapy:</i> *(With distinction in the dissertation) Rykie Greybe *(With distinction in the dissertation) Michael Charles Gwilliams *Hanette Lemke	<i>In Anatomy:</i> Carrie Anna-Marie Clarke
<i>In Biomedical Forensic Science:</i> (With distinction) Lisa Jane Coetze Danielle Tiffany Cupido *(With distinction) Jenna Johnston Janke Pieters		<i>In Bioinformatics:</i> Hilaire Mobebe Mambo

In Biomedical Engineering:

Michael Alan Cousins
*Shaun Dean Fickling
(With distinction) Jeff Varkey
Joshy Joseph
Mkhokheli Ncube
(With distinction) Jason Dirk
Voorneveld

In Cell Biology:

Fleury Augustin Nsole Biteghe

In Emergency Medicine:

*(With distinction) Morgan Carol
Broccoli
*Bruna Dessena

In Human Genetics:

Bafokeng Mpeta
Maryam Bibi Rumaney

In Medical Biochemistry:

Jessica Kaari Hitchcock

In Medical Microbiology:

(With distinction) Shantelle
Claassen
(With distinction) Menna Duyver
Jermaine Khumalo
Rendani Innocent Manenzhe

In Medical Virology:

*(With distinction) Ruzaiq Omar

In Medicine:

Lindizwe Sibonginkosi Dlamini
(With distinction) John-Randel
Vermaak

In Neuroscience:

*(With distinction) Katharina
Johanna Lederer

DEGREE OF MASTER
OF SCIENCE IN
OCCUPATIONAL THERAPY

Graham Peter Clark
Emalda Rochelle Ellman
(With distinction in the
dissertation) Fadia
Gamiieldien

*Kirsty Van Stormbroek
(With distinction in the
dissertation) Dorita Cornelia
Ver Loren Van Themaat

DEGREE OF MASTER OF
SCIENCE IN PHYSIOTHERAPY

Tina Kruger-Jakins
Letitia Erica Rustin
(With distinction) Melissa
Michelle Saw
Cecily Catharine Schmidt

DEGREE OF MASTER
OF SCIENCE IN SPEECH-
LANGUAGE PATHOLOGY

(With distinction) Kristen
Abrahams
Rizwana Badroodien
(With distinction) Amy Jane De
Villiers
Nicoll Kenny
Wadzanai Michel Makanza
(With distinction) Suzanne
Vermeulen
Freda Aletta Walters

DEGREE OF MASTER OF
SCIENCE IN NURSING

Carien De Swardt
Monwabisi Charles Mesela
Gwynneth Roberta Stevens

DEGREE OF DOCTOR
OF PHILOSOPHY

In Biomedical Engineering:
Mayuresh Milindkumar Kulkarni
Thesis Title: *Monte Carlo simulation of slot-scanning X-ray imaging systems*

Mayuresh Kulkarni has a BSc in Electrical Engineering from UCT. He worked on image segmentation for his master's degree in Electrical Engineering, which he completed in 2010. Following this, he enrolled for a PhD in the Medical Imaging Research Unit.

Mayuresh Kulkarni's thesis presents simulation of slot-scanning X-ray systems using the general-purpose Monte Carlo simulation package PENELOPE. A full-body slot-scanning X-ray imaging system is simulated based on the parameters in the imaging chain. A tissue-equivalent three-dimensional breast phantom is simulated for a slot-scanning digital mammography system. The breast phantom is also used for simulating digital breast tomosynthesis. Filtered back-projection is used to reconstruct planar slices from the projections. The effect of tomosynthesis parameters on the reconstructed slices is investigated. The simulations are compared to X-ray images using standard image quality metrics namely modulation transfer function, noise power spectrum, and detector quantum efficiency. The simulation process may be used to represent, analyse and compare the output of physical X-ray imaging systems.

Supervisor: Professor T Douglas,
(Human Biology)

Co-supervisor:
A/ Professor F Nicolls,
(Electrical Engineering)

In Cardiovascular Biomechanics:
Mazin Salaheldin Sirry
Thesis Title: *Computational biomechanics of acute myocardial infarction and its treatment*

Mazin Sirry obtained a BSc Honors (First Class) in Biomedical Engineering from the University of Medical Sciences and Technology, Khartoum, Sudan in 2007 and an MSc(Med) in Biomedical Engineering from UCT in 2010.

Mazin Sirry's thesis is concerned with the development of computational methods and models to study the heart after myocardial infarction, i.e. a heart attack, and to develop therapies that are based on delivering biomaterials in the infarcted heart muscle and that aim at preventing changes in the infarcted heart that often lead to heart failure. Mazin Sirry provides a finite element analysis framework that comprises a biventricular model of a heart, a detailed model of therapeutic biomaterial distributed within the muscle tissue, and a data base of mechanical properties of cardiac tissue from 30 minutes to 28 days after an infarct event. By simulating the mechanical interactions between the biomaterial and cardiac tissue, the framework provides phenomenological information that is not accessible through experimental and clinical methods and that can contribute to accelerating the translation of infarct therapies from the research laboratory to the clinic.

Supervisor: A/Professor T Franz
(Biology)

Co-supervisor: A/Professor N
Davies (Surgery)

In Cell Biology:
Mary-Jessica Nancy Laguette
Thesis Title: *Characterisation of the 3'-UTR of the COL5A1 gene: implication for musculoskeletal soft tissue injuries*

Mary-Jessica Laguette obtained her BSc and BSc(Med)(Hons) from UCT. Her PhD research focused on elucidating the functional role, at the molecular level, of the 3'-untranslated region (UTR) of the COL5A1 gene in common exercise- and occupational-associated musculoskeletal soft tissue injuries and other traits.

Mary-Jessica Laguette's thesis identifies two major functional forms of the COL5A1 3'-UTR. The COL5A1 gene encodes for one of the polypeptide chains of type V collagen, an important structural component of tendons, ligaments and other musculoskeletal tissues. One of the identified functional forms of the COL5A1 3'-UTR, which was predominately identified in patients with chronic Achilles tendinopathy, a common overuse injury, was associated with increased mRNA stability and COL5A1 gene expression. The major regulatory region of the 3'-UTR was mapped and the role of RNA-binding proteins in the differential regulation of the COL5A1 mRNA stability was also explored. The novel findings of this research highlight the possible important role of the differential regulation of the COL5A1 gene and by implication production of type V collagen in modulating susceptibility to exercise- and occupational-associated tendon, ligament and other connective tissue injuries.

Supervisor:
Professor M Collins
(Human Biology)

Co-supervisor: A/Professor S
Prince (Human Biology)

In Exercise Science:

Mark Courtney Kirkman

Thesis Title: *The effect of different interval training protocols on 10km running performance and associated physiological responses*

Mark Kirkman has a BSc in Zoology and Oceanography, a BSc(Hons) in Zoology and a BSc(Med)(Hons) in Exercise Science from UCT.

Mark Kirkman's thesis aims to, firstly, determine whether a 10 km running time trial done on a treadmill is an accurate representation of a 10km time trial done outdoors, and secondly, whether repeated runs yield the same result. This brings laboratory testing of runners into line with that of cyclists, for which there is a well-established test that is both accurate and repeatable. Having established the reliability and validity of the test, the thesis then examines the effectiveness of three different high intensity training sessions on improving 10km time trial performance and investigates the underlying physiological adaptations, including running economy and related oxygen uptake kinetics, as well as muscle recruitment patterns. There has been surprisingly little research done investigating optimisation of high intensity interval training, and this study is the first to compare short versus long intervals on subsequent performance. The final phase of the research investigates the effect of a pre-competition taper on running performance and the physiological changes that underpin the performance changes.

Supervisor: A/Professor AN Bosch (Human Biology)

In Health Economics:

*Edwin Wafula Barasa

Thesis Title: *Examining Priority Setting and Resource Allocation in County Hospitals in Kenya*

Edwin Barasa has a Bachelor of Pharmacy degree from the University of Nairobi, Kenya and Master of Public Health (MPH) specializing in Health Economics from the University of Cape Town. His PhD thesis emerged as a result of his health systems research work at the KEMRI-Wellcome Trust Research Programme in Nairobi, Kenya where he has been working since 2009.

Edwin Barasa's thesis aims to describe and evaluate the priority setting practices in county hospitals in Kenya. County hospitals in Kenya absorb a significant proportion of resources and are important avenues for the delivery of key healthcare interventions to the population. Edwin Barasa's thesis describes priority setting practices in these hospitals and critically examines the influence of contextual factors and actor and power relations on the content and process of priority setting. The thesis also evaluates priority setting practices in these hospitals and identifies strategies for improvement.

Supervisor: Professor A Cleary (School of Public Health and Family Medicine)

Co-supervisor: Dr S Molyneux (Public Health, KEMRI-Wellcome Trust Research Programme, Kenya)

In Human Genetics:

Ambroise Wonkam

Thesis Title: *Burden of Sickle Cell Disease and Prenatal Genetic Diagnosis in Cameroon*

Ambroise Wonkam did his undergraduate medical degree at the University of Yaounde in Cameroon, and his postgraduate work, including an MD, at the University of Geneva, Switzerland. He is a senior consultant Medical Geneticist and Associate Professor in the Division of Human Genetics at the University of Cape Town and its affiliated hospitals.

Sickle Cell Disease (SCD) is the most common human monogenic disease, with no effective treatment. Many patients with SCD in Africa die in early childhood. Prenatal diagnosis followed by a termination of pregnancy represents an essential step in preventive strategies to reduce the prevalence of SCD. In Cameroon, a country which does not yet have a clinical genetics service, the SCD carrier frequency ranges from 8 to 34 %. In the research presented in this dissertation, the differential acceptability in both principle and practice of termination of pregnancies for SCD in Cameroon has revealed the potential value-based conflicts among various sectors of the population who deal with the disease. The laboratory-based genetic data of genetic variations known to be associated with the phenotype of SCD, including haemoglobin F (HbF) levels, beta-globin gene haplotypes and deletions in the thalassemia genes, support perspectives in the clinical genotyping of the α -globin gene deletion, HbF-promoting and other yet to be found genomic variants, that may potentially be useful to risk stratify SCD patients, and to serve as a guide for therapeutic and follow-up strategies. These data, generated in Africa by Africans was purpose-designed as a model that could fast-track regional capacity-building in both social sciences, coupled with genetic research to improve

the care of SCD patients in Africa.

Supervisor: Professor RS Ramesar
(Human Genetics)

In Maternal & Child Health:

Sheila Elizabeth Clow

Thesis Title: *The effect of a training and mentoring programme for registered midwives in primary maternity settings with respect to managing labour : a pragmatic cluster randomised controlled trial*

Sheila Clow has a BSocSc(Nursing) from the University of Natal(Durban) and an MSc(Nurs) from UCT. While co-ordinating undergraduate and postgraduate programmes in Midwifery in the UCT Division of Nursing and Midwifery since 1986, she has contributed substantially to Nursing and Midwifery through her leadership at provincial, national and international levels, and to developing provincial and national clinical guidelines for maternal and perinatal care.

Sheila Clow's thesis evaluates the effect of a multifaceted intervention package on clinical management in labour by registered midwives in rural maternity services in South Africa. She uses an innovative method (pragmatic cluster randomised controlled trial) to accommodate the dynamics of communities and real-life service settings. Her study shows better quality of recording of appropriate clinical management of labouring women and better knowledge and skills amongst midwives in the intervention arm and deterioration in the control arm. A suitable audit instrument for the partograph (labour record) is developed, validated and tested for reliability in a "low-risk" population. This shows high levels of concordance.

Supervisor: Professor GH Swingler
(Paediatric Medicine)

Co-supervisor: Professor RC Pattinson (Obstetrics and Gynaecology, University of Pretoria)

In Medical Biochemistry:

Cathryn Helena Stanford Driver
Thesis Title: *The development of a radiolabelled macromolecule as a therapeutic agent for the treatment of cancer*

Cathryn Driver obtained her BSc in Biochemistry followed by her BSc(Hons) and MSc in Chemistry from the University of Pretoria. She then moved to UCT to combine both her chemistry and biochemistry interest in her PhD studies.

Cathryn Driver's thesis is aimed at developing a radiopharmaceutical bio-conjugate for the treatment of cancer that will have improved bio-distribution and reduced pharmacological toxicity due to targeted localisation of the radiopharmaceutical to the tumour site. The synthetic component of the bio-conjugate that has been successfully synthesised comprises a central tetra-amine macrocycle, a glycosyl linker and an alkyl amine linker. The macrocycle was used to complex a radiotherapeutic isotope while the glucose moiety of the glycosyl linker targeted glucose transporters on the cancer cell surface. The amine linker was used for attachment to human serum albumin – a second cancer targeting mechanism through the Enhanced Permeability and Retention (EPR) effect – thereby completing the synthesis of the bio-conjugate which can then undergo biological testing for cancer therapy.

Supervisor: Professor MI Parker
(International Centre for Genetic Engineering, Biotechnology and Medical Biochemistry)

Co-supervisor: Professor R Hunter
(Chemistry)

Ryan William Goosen

Thesis Title: *Towards personalised medicine: Genomic profiling of primary colorectal carcinoma in a South African cohort with a focus on molecular subtype discovery and characterisation*

Ryan Goosen holds a BSc (Med)(Hons) first class degree in Bioinformatics from the University of Cape Town. He has been studying towards a PhD degree at UCT since 2011 in the Division of Medical Biochemistry.

Ryan Goosen's thesis lies in the field of cancer genomics and is specifically concerned with understanding and predicting the response of colorectal cancer patients to chemotherapy. Ryan Goosen's thesis thus describes the genome wide analysis of gene expression variation, copy number variation and single nucleotide polymorphism variation between tumour and normal biopsy samples in a cohort of colorectal cancer patients and correlates the observed changes with recorded clinical data. This thesis then validates these results through computational cross-correlation with larger, public colorectal cancer datasets. Through this integrative computational and experimental study, Ryan Goosen identifies distinct sub-types of colorectal cancer and predicts altered therapeutic regimes that may provide optimal benefit to the different colorectal cancer sub-types.

Supervisor: Professor JM Blackburn (Division of Medical Biochemistry)

Katherine Sarah Viljoen
Thesis Title: *Integrative Genomic Analyses of Bacterially-Associated Sporadic Colorectal Cancer*

Katherine Viljoen holds a BSc Med Honours (first class) degree in Medical Biochemistry from the University of Cape Town. She has been studying towards a PhD degree at UCT since 2011 in the Division of Medical Biochemistry.

Katherine Viljoen's thesis lies in the field of cancer genomics and is specifically concerned with plausible bacterial origins of certain sporadic colorectal cancers. Katherine Viljoen's thesis thus describes significant, novel associations between colonisation of the colonic epithelia by individual pathogenic bacteria species and host clinicopathological features in a cohort of colorectal cancer patients. The thesis also describes the genome wide analysis of DNA methylation- and gene expression variation between tumour and normal biopsy samples in the same cohort and correlates these observed changes with the bacterial colonisation data. Through this integrative computational and experimental study, Katherine Viljoen identifies a distinct transcriptomic subtype of colorectal cancer which is characterised by an increase in CpG island methylation and which displays an increased frequency of colonisation by *Enterococcus faecalis* and by high levels of *Fusobacterium*. These findings suggest that specific bacterial colonisation underlies a distinct genomic subtype of colorectal cancer that is characterised by inflammatory-related gene expression changes, which may have implications for the future treatment of such cancers.

Supervisor: Professor JM Blackburn (Division of Medical Biochemistry)

In Medical Microbiology:
*Zanele Ditse
Thesis Title: *Replication fidelity in the microevolution of mycobacteria*

Zanele Ditse obtained her MSc degree from the University of the Witwatersrand. A decision to obtain advanced molecular biology skills saw her switch fields in January 2001, when she registered in the Division of Medical Microbiology to conduct PhD research on DNA replication in *Mycobacterium tuberculosis*, the cause of tuberculosis.

Zanele Ditse's thesis investigates the molecular mechanisms which ensure genome maintenance while enabling adaptive evolution (including the emergence of drug resistance) in mycobacteria. Focussing on the contrasting roles of two DnaE-type DNA polymerases, DnaE1 and DnaE2, her work reveals that conserved amino acid residues in a functional domain of DnaE1 are essential for high-fidelity DNA replication – a significant result which provides rare insight into potential mutator alleles in *M. tuberculosis*. In addition, targeted deletion of DnaQ suggests the dispensability of the predicted proofreading subunit for DNA damage-induced mutagenesis and damage tolerance. In contrast, a second DnaQ homolog, dnaQ-uvrC, is shown to be required for DNA damage survival, suggesting a role in SOS-mediated DNA repair. In summary, Zanele Ditse's results reinforce the notion that the mycobacterial replisome differs in key respects from established bacterial models, urging further work to elucidate the composition and regulation of the DNA replisome in a major human pathogen.

Supervisor: A/Professor DF Warner, (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

Co-supervisor: Professor V Mizrahi (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

*Anastasia Sideris Koch
Thesis Title: *The physiology of drug resistant mycobacteria: implications for pathogenesis*

Anastasia Koch obtained BSc and MSc degrees from the University of the Witwatersrand. Since January 2001, she has been registered in the Division of Medical Microbiology where, in addition to her PhD research, she initiated and developed a community engagement project, Eh!Woza, which has attracted international funding for its innovative approach to tuberculosis awareness through collaborations between biomedical scientists, South African artists, and youth in impoverished communities.

Anastasia Koch's thesis examines the implications of drug resistance for the physiology and function of *Mycobacterium tuberculosis*, the bacterium which causes tuberculosis. Focusing on rifampicin, a frontline anti-tubercular drug, this work applies advanced molecular biological methods including site-directed and allelic exchange mutagenesis to introduce common rifampicin resistance-conferring mutations into the genome of a fully drug-susceptible *M. tuberculosis* isolate. Through this novel approach, a valuable collection of derivative mutants carrying specific resistance alleles (all generated in the absence of drug selection) is constructed, revealing unexpected differences between the genetic organizations of pathogenic and non-pathogenic mycobacteria. In addition, mutant phenotypes provide compelling evidence that specific resistance mutations might confer a growth advantage under certain environmental conditions. As such, Anastasia Koch's results indicate that the physiological implications of rifampicin-resistance for

mycobacterial physiology are complex and not necessarily consistent with a “fitness cost”.

Supervisor: A/Professor DF Warner, (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

Co-supervisor: Professor V Mizrahi, (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

Krupa Naran

Thesis Title: *Elucidation of mechanisms of antibiotic subversion in mycobacteria*

Krupa Naran obtained BSc and MSc degrees from Wits University. Since January 2001, she has been registered in the Division of Medical Microbiology, playing a critical role in establishing a world-class biology platform to enable compound screening and target identification for tuberculosis drug discovery.

Krupa Naran’s thesis investigates the factors which enable natural resistance of *Mycobacterium tuberculosis* to commonly used antibiotics. Specifically, her research examines the contributions of three fundamental defence systems – the DNA damage response, mycothiol-dependent protection against oxidative stress, and efflux pump-mediated cellular detoxification – to the “intrinsic resistome”. Through the disruption of genes required for regulation (SOS response) or biosynthesis (mycothiol) of these systems, or through the exploitation of chemical inhibition of pathway function (efflux pumps), this work establishes that the contribution of each intrinsic resistance mechanism varies according to the nature of the applied antibiotic. Moreover, careful comparison of *M. tuberculosis* and *M. smegmatis* establishes that SOS mechanisms contribute unequally to defence against genotoxins in the respective pathogenic and non-pathogenic organisms. Notably, in

developing a suite of bioreporters that have been incorporated into screening platforms locally and internationally, Krupa Naran’s work has yielded practical tools to facilitate compound triage in the early phases of drug discovery.

Supervisor: A/Professor DF Warner (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

Co-supervisor: Professor V Mizrahi, (Clinical Laboratory Sciences and Institute of Infectious Disease and Molecular Medicine)

In Neurosciences:

Coenraad Jacobus Hattingh
Thesis Title: *Structural neuroimaging in Social Anxiety Disorder.*

Coenraad Hattingh trained as clinical neuroanatomist as an undergraduate, and then obtained his MSc Med (Neuroscience) degree from the University of Cape Town.

Coenraad’s thesis investigates the neuroanatomical basis of social anxiety disorder (SAD). SAD is a prevalent psychiatric disorder that is associated with significant morbidity. In this thesis, Coenraad utilizes state of the art neuroimaging techniques to investigate brain structure in individuals with SAD compared to healthy controls, and developed a novel detailed manual segmentation protocol to investigate the differences in the morphology and volume of the subcortical gray matter. His findings demonstrated structural alterations in limbic circuitry as well as involvement of the basal ganglia. Such findings help shed light on SAD, and may ultimately help inform new treatments.

Supervisor: Professor DJ Stein (Psychiatry)

Co-Supervisors: Professor C Lochner (Psychiatry University of Stellenbosch); Dr S J. Brooks, Psychiatry)

In Nutrition:

Susanna Maria Kassier

Thesis Title: *Investigation of weight management-related focus areas in middle-class overweight/obese black (Zulu) to advise healthy weight loss intervention development*

Susanna Kassier has a BSc(Hons) and PGDip(Dietetics) both from Stellenbosch University and a MSc(Dietetics) from University of KwaZulu-Natal. Overweight/obesity in black women in South Africa is a major concern. As there is a paucity of information on weight loss interventions targeting overweight/obesity in urban these women, the candidate aimed to investigate weight management-related focus areas in overweight/obese black women to gain insights in barriers and promoters for successful weight loss and maintenance. For these purposes a group of women were followed up from the point of treatment-seeking to drop-out from, or success with an intervention. Research questions focused on i) the weight management profile of overweight/obese treatment-seeking black women (cross-sectional design); ii) the outcome of a culturally sensitive healthy weight loss intervention in terms of weight loss, compliance and attrition (quasi-experimental design) and iii) factors that may explain outcomes of the intervention (qualitative design). To guide the investigation 10 weight management-related focus areas were identified: treatment seeking behaviour; weight loss success; compliance and attrition; cultural influences on body shape perceptions, food choices and physical activity; environmental factors and social support; matching between weight loss programme and target population; eating behaviour and psychological well-being. Key insights in focus areas that emerged from integration of results for each research question were used to formulate novel recommendations for weight

loss interventions targeted at overweight/obese black (Zulu) women. These recommendations may be of value for the National Obesity Prevention Strategy Task team in development of the strategy and weight management intervention developers as such.

Supervisor: Professor M Senekal (Division of Human Nutrition)
Co-supervisor: Dr A de Villiers (Medical Research Council)

In Obstetrics & Gynaecology:

Mushi Matjila

Thesis Title: The role of kisspeptin and its cognate receptor GPR-54 in normal and abnormal placentation

Mushi J. Matjila obtained his MBChB at the Nelson Mandela School of Medicine, University of Kwazulu-Natal. Thereafter he specialized in Obstetrics and Gynaecology and is currently a Senior Specialist and Senior Lecturer at Groote Schuur Hospital and the University of Cape Town.

Mushi Matjila's research dissertation is part of collaborative research between the MRC/UCT Receptor Biology Research Unit, Queen's Medical Research Institute at Edinburgh University and the Department of Obstetrics and Gynaecology at UCT. His thesis elucidates the intricate molecular mechanisms mediating the role of recently discovered metastasis suppressor protein, kisspeptin and its cognate receptor GPR-54 in normal and abnormal placentation. The thesis describes the molecular maternal-fetal dialogue of kisspeptin along with angiogenic regulators between the placenta and maternal decidua in healthy pregnancy and subsequently in pregnancies complicated by preeclampsia. The expression of maternal and fetal circulatory levels including the effect of kisspeptin on the expression of key angiogenic molecules affecting placentation like VEGF-A and Prokineticin

and their cognate receptors were deciphered. These findings contribute further knowledge about the pathophysiology of poorly understood pregnancy-related complications such as preeclampsia, intrauterine growth restriction and pregnancy loss.

Supervisors: Professor AA Katz (Clinical Laboratory Sciences)
Co Supervisors: Professor RP Millar (Clinical Laboratory Sciences); Professor Z van der Spuy (Obstetrics and Gynaecology)

In Physiotherapy:

Soraya Maart

Thesis Title: Disability in under-resourced areas in the Western Cape, South Africa- a descriptive analytical study

Soraya Maart has a BSc in Physiotherapy and Master in Public Health from the University of the Western Cape. Her PhD research emerged from her work with people with disabilities and her teaching experiences in the Department of Health and Rehabilitation Sciences, where she has been a member of the academic staff since 2000.

Soraya Maart's thesis explores and contrasts the prevalence and impact of disability in two under-resourced communities and the implication for service planning. The prevalence of disability in the urban area was found to be considerably higher than that reported in the National Census. Chronic diseases of lifestyle were the most common cause of disability, followed by non-intentional trauma. It is concluded that contextual factors play a significant role in the experience of disability and that those in the urban area report a lower health related quality of life and bear a greater burden due to disability than their semi-rural counterparts. The most prevalent functional limitations were related to mobility and participation in the community. The thesis provides a

synthesis of identified needs and recommendations for a contextually relevant approach for planning of appropriate services for people with disabilities. It further illustrates its relevance in the development of policy for intermediate and community based health care.

Supervisor: Professor J Jelsma (Health and Rehabilitation Sciences)
Co-supervisor: Professor SL Amosun (Health and Rehabilitation Sciences)

In Psychiatry:

*Lukoye Atwoli

Thesis Title: Trauma and post-traumatic stress disorder in South Africa

Dr Lukoye Atwoli holds a Bachelor of Medicine and Bachelor of Surgery (MBChB) degree from Moi University and a Master of Medicine (MMed.) in Psychiatry from the University of Nairobi. In his research and professional career, he has been interested in trauma and posttraumatic stress disorder in different populations.

Dr Atwoli's thesis aims to generate new knowledge on the community prevalence of trauma and posttraumatic stress disorder in South Africa, as well as the psychopathological and physical health outcomes of trauma exposure. By analysing data from the South African Stress and Health Survey (SASH), Dr Atwoli has demonstrated the widespread occurrence of trauma, including the preponderance of witnessing trauma in South Africa. He has also generated the first estimates of PTSD risk associated with different trauma types. Apart from PTSD risk, this thesis for the first time shows a clear link between trauma exposure and other mental disorders like mood and anxiety disorders. Further, the analysis finds a dose-response association between trauma exposure and several chronic physical conditions

including arthritis, cardiovascular disease, respiratory disease, and chronic pain. These findings will be useful in designing interventions aimed at reducing the burden of PTSD, other mental disorders, and chronic physical conditions.

Supervisor: Professor DJ Stein (Psychiatry and Mental Health)
Co-supervisor: Professor KC Koenen (Epidemiology, Mailman School of Public Health, Columbia University)

Anne Uhlmann
Thesis Title: *Neural correlates of deficits in affect regulation in methamphetamine dependence with and without a history of psychosis*

Anne Uhlmann has an MSc in Biology from the Humboldt University of Berlin, Germany. In 2009, she joined UCT's Brain and Behaviour Initiative (BBI) as a research assistant at the Department of Psychiatry and Mental Health. Through the application of various brain imaging techniques, Anne Uhlmann's thesis investigates the effects of the psychostimulant methamphetamine on brain structure, brain function, and emotion regulation. Employing structural magnetic resonance imaging and diffusion tensor imaging, methamphetamine-associated grey matter and white matter structural abnormalities are determined. In addition to investigating socio-emotional behaviour and social cognition, her research assesses the extent to which functional deficits in the neural circuitry underlie impaired affect regulation in methamphetamine-dependent individuals. The thesis further aims to determine the degree to which the observed structural and functional changes differentially underpin psychotic symptoms in patients with a history of methamphetamine-associated psychosis.

Supervisor: Professor D Stein (Psychiatry and Mental Health)
Co-supervisor: Professor E Meintjes (Human Biology)

In Public Health:
Shahieda Adams
Thesis Title: *An evaluation of immunodiagnostic tests for tuberculosis infection and determinants of TB infection in a population of health care workers in the Western Cape*

Shahieda Adams has an MBChB and MMed from UCT, and an MFamMed from the University of Stellenbosch. Her PhD research emerged as a result of her interest in the occupational hazards faced by health care workers, with a specific focus on their risk of tuberculosis (TB).

Shahieda Adams's thesis evaluates the burden of latent TB infection using both Tuberculin skin test and Interferon-gamma release assays in health care workers in a high TB and HIV prevalence setting. This allows for a head to head comparison of TB infection estimates and test performance. A comparison is drawn between community TB infection prevalence and incidence estimates generated in this study. The prospective design allows for estimation of an annual incidence of tuberculosis infection and identification of factors associated with test conversion. This thesis confirms tuberculin skin test to be most sensitive for the detection of tuberculosis infection. It furthermore identifies certain occupational factors associated with prevalent and incident TB infection risk (reflected in test conversion), which may be potentially modifiable. Serial testing with interferon gamma release assays reveals high reversion rates, pointing to marked variability of these assays which adversely affects their use and interpretation in serial screening programmes.

Supervisor: Professor K Dheda, (Medicine)

Co-supervisor:
Professor R Ehrlich, (Public Health and Family Medicine)

Zoe Louise Auriol Duby
Thesis Title: *Heterosexual penile-anal intercourse and HIV in five sub-Saharan African countries*

Zoe Duby has a BA with Honours in Social Anthropology from the University of Sussex in the UK, and an MPhil in HIV and Society from UCT's department of Sociology.

Zoe has been involved in HIV-related research in sub-Saharan Africa for the past 10 years. Zoe Duby's thesis focuses on the under-researched topic of heterosexual penile-anal intercourse (HPAI) in sub-Saharan Africa. Despite its high risks for HIV transmission, HPAI has been largely excluded from HIV interventions. The thesis presents qualitative data gathered in five sub-Saharan African countries and addresses: sexual decision-making and risk-taking, relationship contexts and gendered power dynamics, language and discourse, as well as challenges in conducting research on HPAI. Findings show that HIV risks for HPAI are exacerbated by taboos, social stigmatisation and sexual communication norms which impede effective communication and safe sex negotiation, limit individuals' ability to make informed decisions, and impact on reporting in research and clinical settings. Zoe Duby's thesis is the first in-depth description and analysis of heterosexual penile-anal intercourse and related practices in sub-Saharan Africa, highlighting the importance of paying attention to its role in HIV transmission in Africa.

Supervisor: A/Professor C Colvin (School of Public Health and Family Medicine)

Anna Thora Grimsrud
Thesis Title: *Loss to follow-up from South Africa's antiretroviral treatment programme: Trends, risk factors, and models of care to improve retention*

Anna Grimsrud has a BA from the University of Alberta and an MPH from the University of Cape Town. Her PhD thesis is the culmination of eight years of work in HIV/AIDS, including with the Treatment Action Campaign and Desmond Tutu HIV Foundation.

Anna Grimsrud's thesis investigates loss to follow-up (LTFU) after initiation of antiretroviral (ART) therapy in resource-limited settings, and evaluates models of ART delivery to improve retention of patients in care over time. Working with datasets from South Africa and the region, her thesis begins with an exploration of different definitions of LTFU, and uses this methodological platform to demonstrate the problem of LTFU within ART programmes. Subsequent chapters examine how different models of ART service delivery may influence levels of LTFU over time, with specific attention to task-shifting of primary care services from clinic-based doctors or nurses to counsellors working in novel models of community-based care. This thesis concludes that LTFU is a significant and ongoing challenge faced by ART programmes. In the context of ambitious treatment targets and evidence for the potential benefits of widespread ART use, changes to the health system are necessary to support retention in care. The successes of ART programmes in treating chronic conditions in resource-limited settings can be built upon both by expanding community-based ART provision and by integrating management of other adult illnesses.

Supervisor: Professor L Myer (Epidemiology & Biostatistics, Public Health & Family Medicine)

Virginia Elizabeth Melvill
Zweigenthal
Thesis Title: *The contribution of public health medicine specialists to South Africa's health system*

4. FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Dean: Professor AE Lewis

DEGREE OF DOCTOR OF PHILOSOPHY

In Architecture & Planning:
Warren Michael Smit
Thesis Title: *Transforming cities: analysing the recontextualization of discourses of the urban in post-apartheid Cape Town*

Warren Smit has a B.Sc (Building Management) degree and a Master's in City and Regional Planning degree, both from the University of Cape Town. His PhD is partially based on work undertaken for the African Centre for Cities, where he has been a researcher since 2008.

Warren Smit's thesis examines the ways in which three important sets of ideas (or "discourses") about planning and managing cities were adopted and adapted to a different context over the past few decades, using Cape Town as a case study. The three discourses focused on are strategic spatial planning, upgrading informal settlements and creating healthy cities. A Foucauldian discourse analysis approach is used. The study contributes towards an enhanced understanding of the processes through which global discourses are recontextualized at the city scale in the global South. The study highlights the complexity of the flow of discourses – they travel through multiple routes in multiple directions, and when discourses land in different contexts they are often understood and operationalized in different ways

and can change fundamentally. The study also highlights the ambiguous articulation of specific discourses to nodal discourses such as "neoliberalism".

Supervisor: Professor S Parnell (Environmental and Geographical Science)

In Chemical Engineering:
Doreen Nabaho
Thesis Title: *Hydrogen spillover in the Fischer-Tropsch synthesis – the roles of platinum and gold as promoters for cobalt-based catalysts*

Doreen Nabaho obtained her BSc(Eng) in Chemical Engineering from UCT in 2008. In 2009 she enrolled for an MSc, which was later upgraded to a PhD, in the field of heterogeneous catalysis in UCT's Department of Chemical Engineering.

Doreen Nabaho's thesis investigates the role of noble metals as a promoter in cobalt-based Fischer-Tropsch catalysts, an important process to convert natural gas or biomass into liquid fuels. This reaction is catalysed by nano-sized, metallic cobalt crystallites supported on an oxidic carrier. The ultimate transformation of oxidic cobalt to metallic cobalt is hindered by the support. A noble metal is typically added to enhance the reducibility of ionic cobalt. Doreen Nabaho poses in her thesis a very simple question, i.e. does the noble metal only function during the initial activation step or does it benefit the actual Fischer-Tropsch synthesis as well. She uses a unique approach to distinguish between the various roles attributed to noble metal promoter. By physically separating the noble metal promoter from the Fischer-Tropsch active component in the catalyst, she could show that hydrogen migrates over the support towards ionic cobalt. This process continues during the Fischer-Tropsch synthesis, albeit at a reduced rate, resulting in an increased activity

of the Fischer-Tropsch catalyst.

Supervisor: Professor E van Steen
(Chemical Engineering)
Co-supervisor: Professor M Claeys
(Chemical Engineering)

Noko Nepo Ngoepe
Thesis Title: *Tracking the motion of particle-bubble aggregates using Positron Emission Particle Tracking*

Margreth Tadie
Thesis Title: *An electrochemical study of platinum group minerals*

Margreth Tadie has a BEng in Chemical Engineering from the National University of Science and Technology in Zimbabwe and an MSc in Chemical Engineering from the University of KwaZulu Natal. Her PhD is focused on the processing of platinum group minerals, the exploitation of which is a major contributor to the South African economy.

Margreth Tadie's thesis investigates the mechanisms of interaction between platinum group minerals that are typical to the Platreef ore body which is situated in the northern part of South Africa. Processing of this ore body is a challenge for the mining industry as the mineralogy does not follow the behaviour of conventional ore types such as Merensky and UG-2. Margreth has taken the typical reagents (thiol collectors and copper sulphate) used for concentration of platinum group minerals (PGMs) and developed an understanding of their mechanisms of interaction with platinum and palladium tellurides (most abundant PGMs in Platreef) and platinum and palladium sulphides (most abundant PGMs in conventional ore types), using electrochemical techniques. This fundamental knowledge creates a basis for which the reagent chemistry in mineral processing of ore types containing these minerals can be designed.

Supervisor: Dr KC Corin
(Chemical Engineering)
Co-supervisor: Mrs JG Wiese
(Chemical Engineering)

In Construction Economics and Management:

*Ephraim Kabunda Munshifwa
Thesis Title: *Property rights and the production of the urban built environment in Zambia*

Ephraim Munshifwa has a BSc degree in Land Economy from the Copperbelt University in Zambia and an MPhil degree in Land Economy from the University of Cambridge in England.

This study investigates the phenomenon whereby low-income settlements with ostensibly similar socio-economic status exhibit significantly different physical outcomes. Working on the premise that the differences could be accounted for by different property rights regimes, the study employs the comparative institutional analysis methodology to determine the influence of three types of property rights on the production of the built environment in Zambia. These rights are categorised as informal, semi-legal and legalised, and are to be found, respectively, in Mindolo North, Chipata and Ipusukilo, three settlements selected as case studies in the Zambian Copperbelt city of Kitwe. Empirical data was collected using a household survey, focus group discussions, semi-structured interviews and direct observations. The study finds that stronger property rights are associated with better quality physical development outcomes. Furthermore, the study finds that different types of property rights are associated with different mechanisms and processes for the production of the built environment. Finally, the study finds that where property rights are illegal or informal, successful development requires that there be facilitative interaction between formal institutions of the State on

one hand, and informal institutions and organisations on the other.

Supervisor: Dr MM Mooya
(Construction Economics and Management).

In Electrical Engineering:
Jason Peter de Villiers
Thesis Title: *Design and application of an automated system for camera photogrammetric calibration*

Jason de Villiers has a BEng, honours degree and MEng from the University of Pretoria. His PhD thesis emerged as a result of his research in electro-optics at the Council for Scientific and Industrial Research, where he has been a member of the staff since 2008.

Jason de Villiers' thesis aims to develop a system to calibrate the lensing effects inherent in short focal length cameras, regardless of their resolution, field of view, and spectrum. These cameras can then be used as precision angular measurement devices in applications varying from autonomous navigation to surveillance. Jason de Villiers incorporates principles from the fields of computer vision, artificial intelligence and mathematical optimisation to derive the required mathematical model of the system, which he then physically realises. The system is first tested theoretically via a detailed sensitivity analysis of its calibration accuracy when subjected to real world noise. Thereafter the physical system is practically tested by being used to calibrate an array of cameras with different spectrums for use in multispectral panorama creation, and cameras for a non-contact pose measurement system. The accuracies of these systems are quantitatively assessed, and their favourable results presented as additional validation of the calibration systems effectiveness.

Supervisor: A/Professor F Nicolls
(Electrical Engineering)

Richard Wilhelm Focke
Thesis Title: *Investigating the use of Interval Algebra to schedule mechanically-steered multistatic radars*

Richard Focke has a BEng and honours from the University of Pretoria. His PhD began from MSc research conducted in conjunction with the Council for Scientific and Industrial Research (CSIR). Richard has been a researcher at the CSIR since 2007.

Richard Focke's thesis investigates using Interval Algebra (IA), a technique from the field of Artificial Intelligence, to perform scheduling of multistatic radar dwells. Richard's work considered if IA could perform this function efficiently and effectively. IA scheduling is compared to the Greedy Randomized Adaptive Search Procedure, which represents the heuristic and mathematical optimisations that dominate the field. The algorithms were compared in scheduling scenarios using a binary radar system. Realistic simulations further tested the effectiveness of IA. Three novel schedulers based on IA were generated through Richard's research. The first two schedulers utilised IA and performed as well as GRASP. The last allowed IA scheduling to be used in dynamic target scenarios. Furthermore, a novel IA algorithm was generated that could operate on general-purpose graphical processing units (GP-GPUs). Using OpenCL, the algorithm allows IA to be solved on GP-GPUs with performance increases under specific scenarios.

Supervisor: Professor MR Inggs
(Electrical Engineering)
Co-supervisor: Dr JP de Villiers
(University of Pretoria/CSIR)

Jason Ryan Manley
Thesis Title: *A scalable packetised radio astronomy imager*

Jason Manley obtained his BSc(Eng) (Elec Eng) from UCT, whereafter he spent two years researching packetised processors for radio astronomy instrumentation at the University of California at Berkeley. He currently works at SKA South Africa, as their Correlator-Beamformer subsystem manager.

Jason Manley's thesis describes the design and construction of the first working radio astronomy imaging instrument hosted on Ethernet-interconnected reprogrammable FPGA hardware, with the aim to reduce construction time and cost, and to simplify the design of high speed signal processing systems for radio telescope instrumentation. The developed machine is able to acquire different personalities and thus perform multiple signal processing functions. Flexible, scalable Ethernet-based, packet-switched networks enable arbitrary data routing through the machine, and for the same instrument design to be scaled to larger installations by adding additional processing nodes and larger network switches. This machine is able to perform all the digital signal processing requirements of a modern radio telescope array. Versions of this open-source design have since been deployed on the PAPER, KAT-7 and LEDA telescopes, both of which remain in operation today as their primary imaging computers. It will also form the basis for the upcoming MeerKAT array's central signal processor.

Supervisor: Professor M Inggs
(Electrical Engineering)
Co-supervisor: Dr A Langman
(Electrical Engineering)

In Mechanical Engineering:
Manuel Tobias Rockstroh
Thesis Title: *Combustion characteristics of synthetic gasoline in modern charge boosted GDI engines*

Tobias Rockstroh has a BTech (Cape Technikon) and MSc in Automotive Mechatronics (Hochschule Esslingen, Germany). He accumulated more than 6 years of relevant industrial and research experience before embarking on his PhD studies at the Sasol Advanced Fuels Laboratory at UCT.

Tobias Rockstroh's thesis addresses the challenge of formulating an optimised fuel for application in modern technology gasoline engines. He used proprietary synthetic gasoline components which are uniquely available in South Africa and combined analytical fuel chemistry data and experimental flame speed test results to characterise and correlate the intrinsic combustion behaviours of the fuel components. Laboratory engine tests were performed and he incorporated the results into his predictive fuel blending model to generate four blend recipes that were optimised for best power, best volumetric fuel consumption, lowest CO₂ emissions and lowest specific legislated toxic emissions whilst adhering to the National gasoline specifications. A fifth, relaxed-specification racing fuel blend recipe was also formulated. The optimised blends were each validated on the test engine. The holistic and artful nature of this study with respect to its methodology, the fuel components used and the appropriate use of modern engine technology, combine to represent a novel and valuable contribution to this field.

Supervisor: Professor A Yates
(Mechanical Engineering)
Co-supervisor: Dr G Floweday
(Sasol Advanced Fuels Laboratory)

In Mechatronics:

Amir Patel

Thesis Title: *Understanding the Motions of the Cheetah Tail Using Robotics*

Amir Patel obtained his BSc(Eng) (Mechatronics) from UCT in 2009. Subsequently he worked at Tellumat Defence as a software developer while simultaneously completing his MSc (Electrical Engineering) from UCT in 2011, on the topic of flight control systems. His PhD research has focused on bio-inspired robotics.

Amir Patel's thesis investigates the motions of the cheetah (*Acinonyx Jubatus*) tail during rapid manoeuvres to incorporate these into robotic systems. A multidisciplinary approach was followed whereby complex mathematical models, feedback controllers and novel robot platforms were developed to understand the system dynamics. Initially, the rolling motion of the cheetah tail was investigated and shown to increase roll stability during high-speed turn initiation. Similarly, the pitch axis was shown to increase stability during rapid acceleration and braking. The conical swing of the cheetah tail was found to impart a continuous roll torque on the body. Investigations into the cheetah tail biomechanics revealed that the aerodynamic effects were also significant in cheetah stability during rapid manoeuvres. The results of this thesis significantly expand our understanding of the adaptations of the cheetah and will inspire future robotic systems.

Supervisor: Professor M Braae
(Electrical Engineering)

FACULTY OF COMMERCE

ORDER OF PROCEEDINGS

Academic Procession.

(The congregation is requested to stand as the procession enters the hall and is invited to participate in the singing of Gaudeamus)

The Vice-Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Deputy Vice-Chancellor, Professor D Visser.

Professor Visser will introduce the guest speaker, Mr Zandile Zungu,
Executive Chairman of Zungu Investments Company.

Address by Mr Sandile Zungu.

The graduands and diplomates will be presented to the Vice-Chancellor by Professor Baets,
Director of the Graduate School of Business.

The Vice-Chancellor will congratulate the new graduates and diplomates.

Professor Visser will make closing announcements and invite the congregation to stand.

The Vice-Chancellor 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.)

The music for the recessional march has been composed by Emeritus Professor Klatzow.

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%.

**NAMES OF
GRADUANDS/DIPLOMATES**

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

FACULTY OF COMMERCE

*Acting Dean: Professor M Wormald
Director of the Graduate School of
Business: Professor W Baets*

ASSOCIATE IN MANAGEMENT

Jason Ronald Abrahams
Megan Abrahams
Warren Adams
Megan Adonis
*(With distinction) Sidonie Bei
Angwafor
Gayle Eileen Atkinson
Kurt Wayne Brevis
Mavis Brown
Albertus Frederick Carstens
Mogamat Shaheed Clark
(With distinction) Romi
Antoinete Da Silva
Nosiphiwo Getrude Diniso
Babalwa Dube
(With distinction) Faizel Faker
Zanoxolo Ricardo Filifili
*(With distinction) Robert Eike
Gaus
Alexander Stephen Gird
*(With distinction) Tamsin Gillian
Hodgson
Grant John King
(With distinction) Luisa Maria
Ladeira
(With distinction) Kim Loubser
(With distinction) Amy Leigh
Louw
Luluzana Nwaxixava Madhlophe
Abigail Nomonde Majikela
*Mbalenhle Manana
(With distinction) Simphiwe
Hopewell Mbanjwa
Tubajiki Jacob Menda
*Mbali Rebecca Mkhize
Nomathamsanqa Thami Ncanywa
Jakobus Johannes Niemand
Noluthando Amanda Ntabeni
Ghislain Lonji Ntengu

(With distinction) Marcelle
Parker
Waseemah Patel
Motshabi Adam Pule
Rakesh Rama
David Cacile Sambokwe
*Nkululeko Dwight Sibiya
Virosh Siripal
Andiswa Aya Skweza
Christopher William Smith
Janice Alexandria Smith
(With distinction) Jared Mathew
Smith
Ronelle Steenekamp
*(With distinction) Daniel Jacobus
Van De Venter
Llewellyn Elviro Veenendraal
(With distinction) Ashton
Williams
(With distinction) Shiela Yabo

In Management Practice:

*Senyo Mensah Buake
*Veronica Thokozani Sharon
Wanda

**POSTGRADUATE DIPLOMA IN
BUSINESS ADMINISTRATION**

(With distinction) Clayton
Christopher Abrahams
Nico Shaun Adriaans
*Jani Branders
Giancarlo Bravetti
(With distinction) Samantha
Bernadene Brinkmann
Ryan Laurence Burrows
Pieter Venter Coetzer
Francesca Corna
Stuart Phyfer Crooks
Willem Wouter du Plooy
*(With distinction) Mohamad
Zubair Edwards
(With distinction) Vivienie Fireyi
Hilton George
(With distinction) Ruth Natasha
Hartman
June Candice Jeftha
*Yolanda Kope
Jane La Marque
Martin Ludwich Maartens
Yolanda Mabuto
Rudith Nthabiseng Makgatho
Mxolisi Mxolisi Mbalu
Nosomi Nambitha Mdyesha
Karen Lindsay Metcalf

(With distinction) Maxidore
Christene Meyer
(With distinction) Mugabi
Christopher Mlotchwa
Seshen Moodley
Azwimbavhi Mulaudzi
*Simpiwe Myataza
*Tanya Shelley Nathan
(With distinction) Gracia Nkulu
Ndalamba
Mwema Lydia Ndalamba
Thabang Nkosi
Zimkita Ntsebeza
Zulfa Petersen
(With distinction) Rebecca Pillay
(With distinction) Teri Katrin
Richter
(With distinction) Phillip Duncan
Stuart Rist
(With distinction) Jacqui Russon
*(With distinction) Barati Atlang
Rwelengera
(With distinction) Shaheeda
Sadien
Ashveer Sahadew
Gift Siphos Sibanda
(With distinction) Alawia Sied
Donald Stewart
Clifford Swarts
(With distinction) Jia-Shan Tsai
Kirsten Leslie van der Hoven
(With distinction) Bradley
Kenneth van der Westhuizen
*(With distinction) Cecilia van
Huyssteen
(With distinction) Errol van
Staden
Melverna Olivia Wakefield
Mkhuseli Wana
Angelo Shaun Wessels
Ian Morris Williams
Letitia Belinda Wilson
Randall Rowen Wilson

**POSTGRADUATE DIPLOMA IN
MANAGEMENT PRACTICE**

Desmund Desiderius Andreas
Maria Elizabeth Buchanan
Inbanathan Chetty
Vikash Dave
(With distinction) Willem Abram
Willem de Beer
(With distinction) Aneshree
Dhansraj
*Deon Reino du Preez

(With distinction) Josef Seyffert
Fourie
*(With distinction) Tamara Vashni
Gokal
*Marthinus Gerhardus Jansen van
Vuuren
Ashwin Jugmohan
*Desiree Janette Lawrence
Derrick Letebele
Louisa Sophia Loader
Dickson Venance Luwumba
Petros Matshinini
Amanda Meijer
Gavin Moonsamy
Benedictus Frank Pegram
Rubanathan Pillay
Christoffel Stefanus Christo Prins
(With distinction) Reema
Raghunundhun
Meshack Tiego Ramasodi
(With distinction) Sebastiaan
Reinhardt
Gwendolin Swanepoel
(With distinction) Jacqueline
Swanepoel
Louis Charles van Aswegen
Michele van den Berg
Christina Elizabeth Wolmarans

DEGREE OF MASTER
OF COMMERCE

In Development Finance:
Adam Barak Bennot
Lungelo Linda Gumede
*Dieter Hoffman
*Linda Gathoni Kirigi
Alexander Makhwatha
Konoto Lydia Maredi
Collen Masunda (with distinction
in the dissertation and the
degree with distinction)
Alvin Mungai Mbugua
Nomathemba Melody Memela
*Joseph Mubonderi
*Charity Priscilla Musonzo
Mumbi Tenga Ng'Andwe
Juliana Nkomo
Shepherd Nyere
*Ritta Sabbas Shine
Anna Elizabeth Verryn
*Siyavuya Nicholas Xolo

In Management Practice:
Tania Bernadette Bowers
(With distinction) Batanai
Clemence Chikwene
*Bharti Daya
Limpho Yvonne Debeshe

DEGREE OF MASTER
OF PHILOSOPHY

In Development Finance:
Michael Maseko
*(With distinction) Ayanda
Ntombela

DEGREE OF MASTER OF
BUSINESS ADMINISTRATION

Moegammat Qasim Abrahams
(With distinction) Sedick Achmat
*(With distinction) Michael Paul
Acutt
Zerisenay Semedar Andeghiorgis
*(With distinction) Aleksandar
Andjelopolj
*John William Argyle
(With distinction) Pieter Stefanus
Johannes Avenant
(With distinction) Catrin Bajorat
Makhosazana Sharon Bambisa
*Olatubosun Ajoke Bankole
Nerice Lee Barnabas
Adam Daniel Barnard
Trevor Barsdorf
John Royle Bazley
Juan Bester
(With distinction) Andre Beyers
(With distinction) Mohamed
Asief Brey
Matthew Jeffrey Bronner
*(With distinction) Paul David
Carter
(With distinction) Mariam
Cassim
Casper Jacques Combrink
Rudi Fred Cooke
(With distinction) Warren Cronje
(With distinction) Stephen
Michael Cunliffe
Benjamin Natan Dadon
Zafrula Ahmed Dalvie
Rezaan Daniels
Simon Osei Yaw Darko
Philip de Witt

(With distinction) Preleena
Dookhilal
(With distinction) Lauren Francis
Drake
Francois Rudolph du Plessis
(With distinction) Tamutswa
Dutuma
(With distinction) Olalekan
Oladipupo Fagbuyi
Denise Shereen Gabriels
Brian Simbanouta Gatawa
Bradley Stuart Gray
Jonathan James Henderson
Nicolette Joan Hendricks
Peter Nicholas Hidden
*Peter David Hiscock
(With distinction) Amanda Mary
Hogan
Johan Herman Huysamen
Bruce James Martin Isdale
(With distinction) Clint Jackson
Grant Jackson
*Arne Jacobs
(With distinction) Steven Michael
Jaffa
Evans Mutsa Jaji
*Sanket Sanjay Jakate
Leon Daniel Jantjes
(With distinction) Tasneem Jappie
(With distinction) Caryn Tracy
Jeenes
(With distinction) Anthea Judith
Jefthas
Wayne Nigel Jochems
(With distinction) Leander
Werner Johannes
Joleen Drusilla John
(With distinction) Susan Johnston
(With distinction) Godfrey
Kalumbi
(With distinction) Johan Torbjörn
Karlsson
Robert James Kellas
*(With distinction) Julian
Kezelman
Nokwethu Khojane
Amos Bonginkosi Khumalo
Charles Rudolph Kleynhans
*Crystelle Knoesen
(With distinction) Travis Ronald
Langley
Milton Lauxande
Makgoana Raymond Ledwaba
(With distinction) Siu Ming Lee
Mokwape Johannah Lekganyane
(With distinction) Theresa Emily
le Roux
Wayne Philip Leverton

(With distinction) Kerry Anne Littlewood
 Mark Lourens
 *Sarel Johannes Louw
 (With distinction) Lise-Mari Maartens
 Edson Rogério Mário Machel
 (With distinction) Suraksha Maharaj
 Sanelisiwe Dumisani Mahluthshana
 (With distinction) Mohamed Is-Hack Majapa
 (With distinction) Jonathan Michael Manley
 *Brandon Marcus Mavleos
 *(With distinction) Gregory Brett McDonald
 Tsundzukani Tintswalo Alice-Chris Mhlanga
 Michael Antonie Hendrik Miller
 Theo Tema Modise
 *(With distinction) Beatrice Möller
 Pieter Willem Moller
 Sadha Moodley
 (With distinction) April Boniswa Mthupha
 (With distinction) Grace Wanjiru Mugo
 Brian Bundi Muriuki
 *Saurabh Sureshbhai Nadgir
 Kamal Naidu
 Robert Harry Nichol
 Kevin Njukuya
 Babalwa Hellen Nonkenge
 (With distinction) Jared Patel
 Jandro Paxton
 (With distinction) Jayendren Pillay
 (With distinction) Seshni Pillay
 Peter Reinecke
 Adrian Luke Rheeder
 (With distinction) James Pearson Rycroft
 (With distinction) Pepler Sacco Emiliano Sandri
 Johannes Jurgens Schoeman
 Johannes Jacobus Schoeman
 (With distinction) Elsa Carolina Scholtz
 Bradley Lawton Shaw
 (With distinction) Tariq Nadeem Sheikh
 Cacious Siboleka Siboleka
 Thembi Letty Skhosana
 Diana Amy Spicer
 (With distinction) Jonathan Lior Stern

(With distinction) Dustin Henry Stringfellow
 Carel Christiaan Strydom
 Angela Chisanga Taylor
 Linda Taylor
 Torsten Tesch
 *(With distinction) Jacques Thomas Theron
 Meena Thomas
 (With distinction) Ralph Paul Thomas
 Pakama Tsabedze
 *Efstratios Tsalamandris
 Rorisang Tshabalala
 Siphon Kodjo Twum
 Matthew Tyrrell
 Johanan David van der Westhuizen
 *Yi Wang
 (With distinction) Rainer Gregor Wellmanns
 *Marcel Otto Jurgen Wijs
 Clayton Fraser Williams
 (With distinction) Corinna Zensi

In Executive Management:

Jacqueline Anne Barnes
 Daniel Calvo Buron
 Annelise Alaxis Cohen
 (With distinction) Michelle Colleen Culverwell
 *Thierry Delvigne-Jean
 (With distinction) Grant Antony Fleming
 Ravid Goldstein
 (With distinction) Jacqueline Tamara Gooch
 Selven Govender
 (With distinction) Francis Bodan Jackson
 Frederik Rudolph Janse Van Rensburg
 *Rueben Tinei Java
 Muhsin Jeena
 Henry Maxwell Jonker
 Sharon Lynne Knowles
 Rachel Mmakgopa Mathale
 Graham Napoleon Mayer
 Charline Audrey Miles
 Mmahati Florence Mmutlana
 (With distinction) Bhadrashil Hasmukhlal Modi
 *Keymanthri Moodley
 Teddy Donald Mafa
 Mosomothane
 Jacob Mogale Mothomogolo
 Melusi Mtwazi

*Rajesh Narotam
 Heinrich Nell
 Tsatsi Baphiwe Ngcingwana
 (With distinction) Daniel Christopher Wilhelm Schörger
 Pearson Sibanda
 Peter Ramabitsi Sibande
 (With distinction) Derek Slaney Sprackett
 (With distinction) Francois Steyn
 (With distinction) Andries Lukas van Coller
 (With distinction) Carel Gerhardus van Vuuren
 *Deon Karl von Benecke
 (With distinction) Johann Christiaan Vorster
 *Angela Wabosha Wamola

DEGREE OF DOCTOR
OF PHILOSOPHY

In Business Administration:
Artwell Shingirai Chimanga
Thesis Title: *The evolution and
dynamics of stocks on the JSE
and their implication for equity
investment management*

Artwell Chimanga has a BSc in Mathematics and Statistics and an honours in Statistics from the University of Zimbabwe. He also holds a master's qualification in Computational Finance from the University of the Western Cape.

Artwell Chimanga's PhD thesis documents the market dynamics of the JSE in the form of fractals, long-term predictability, non-linearity, volatility clustering, endogeneity and heterogeneity of agent beliefs. This contradicts one of Finance's most popular theories – the Efficient Market Hypothesis. The evidence suggests that the homogenous belief assumption of the Capital Asset Pricing Model underestimates stock prices and that the stock returns, which are leptokurtic and positively skewed, are best fit using the student-t distribution. Furthermore, the Gaussian-based Value-at-Risk model is found to be ineffective in measuring risk under high market volatility and endogeneity is most prevalent in financial crises periods. The aforementioned characteristics of the JSE are used to develop a robust hybrid adaptive intelligent model with improved pattern identification and control, decision making ability and process characterisation. This model, which is a combination of neural networks, fuzzy logic and fractals, is found to have significantly better prediction accuracy over longer horizons compared to the traditional linear Autoregressive Integrated Moving Average and classic Artificial Neural Network models.

Supervisor: Dr C Mlambo
(Graduate School of
Business)

Nimrod Noruwana
Thesis Title: *Factors relating
to and impacting eGovernment
readiness in South Africa: a case of
the Provincial Government of the
Western Cape*

Nimrod Noruwana obtained his bachelors and master's degrees in Commerce from UWC and UCT respectively.

Nimrod Noruwana's thesis aims to develop a general framework to determine the level of readiness for eGovernment initiatives in South Africa. This research is triggered by the continuing failure of eGovernment initiatives to achieve the intended results. The Actor Network Theory, particularly the concepts of moments of translation and irreversibility are used as a lens for understanding and interpreting the social phenomenon. The key finding is that eGovernment systems must be completely institutionalised before benefits can be derived from them. The process of institutionalisation can be iterative in nature, which ensures that each of the stages of the actor network is completely institutionalised before proceeding to the next. Therefore, the process would not allow any of the stages of the actor network to be undermined leading to non-alignment of interests, or weakened state of irreversibility. Institutionalisation is not an end but a process which should happen iteratively throughout the development of the network of aligned interests.

Supervisor: A/Professor
K Sewchurran (Business
Administration)

FACULTIES OF HUMANITIES AND SCIENCE

ORDER OF PROCEEDINGS

Academic Procession.

(The congregation is requested to stand as the procession enters the hall and is invited to participate in the singing of Gaudeamus)

The Vice-Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Deputy Vice-Chancellor, Professor C Soudien.

The University Book Award.

The University Creative Works Award.

Professor S Klopper will present Okwui Enwezor to the Vice-Chancellor for the award of an honorary degree.

Professor N Worden will present John Britten Wright to the Vice-Chancellor for the award of an honorary degree.

Address by Okwui Enwezor.

The graduands and diplomates will be presented to the Vice-Chancellor by the Deans of the faculties.

The Vice-Chancellor will congratulate the new graduates and diplomates.

Professor Soudien will make closing announcements and invite the congregation to stand.

The Vice-Chancellor 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.)

The music for the recessional march has been composed by Emeritus Professor Klatzow.

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%.

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)	<i>Waiting for the Barbarians</i>
1985	G M Branch (Science)	<i>The Living Shores of South Africa</i>
1986	L H Opie (Medicine)	<i>The Heart: Physiology, Metabolism, Pharmacology and Therapy</i>
1987	M J Hall (Arts)	<i>The Changing Past: Farmers, Kings and Traders in Southern Africa, 200 - 1860</i>
1988	R G Lass (Arts)	<i>The Shape of English: Structure and History</i>
1989	H Bradford (Arts)	<i>A Taste of Freedom</i>
1990	J M Coetzee (Arts)	<i>Age of Iron</i>
	K M Coleman (Arts)	<i>Book IV of the <i>Silvae</i> of Statius</i>
1991	R Mendelsohn (Arts)	<i>Sammy Marks, "The Uncrowned King of the Transvaal"</i>
1992	P Skotnes (Fine Art & Architecture); S Watson (Arts); J Parkington (Arts) and N Penn (Arts)	<i>Sound from the Thinking Strings</i>
1993	D Chidester (Social Science & Humanities)	<i>Shots in the Street</i>
	W Nasson (Arts)	<i>Ebram Esau's War</i>
1994	G M Branch (Science); C L Griffiths (Science); L Beckley and M L Branch	<i>Two Oceans: A Guide to the Marine Life of Southern Africa</i>
1996	D Coplan (Humanities)	<i>In the time of the Cannibals</i>
	P Harries (Arts)	<i>Work, Culture and Identity</i>
	M Shain (Arts)	<i>The roots of anti-Semitism in South Africa</i>
	T Rajna (Music)	<i>Harp Concerto</i>
1997	B Warner (Science)	<i>Cataclysmic Variable Stars</i>

THE UNIVERSITY BOOK AWARD (CONTINUED)

1998	M S Blackman (Law)	<i>Companies (in Law of South Africa, first re-issue Vol 4, parts 1, 2 and 3)</i>
	J V Bickford-Smith (Arts)	<i>Ethnic Pride and Racial Prejudice in Victorian Cape Town: Group Identity and Social Practice, 1875 - 1902</i>
1999	M Mamdani (Humanities)	<i>Citizen and Subject: Contemporary Africa and the Legacy of Colonialism</i>
2000	J Higgins (Humanities)	<i>Raymond Williams. Literature, Marxism and Cultural Materialism</i>
2001	N G Penn (Historical Studies)	<i>Rogues, Rebels and Runaways</i>
2002	J Glazewski (Law)	<i>Environmental Law in South Africa</i>
2003	T D Noakes (Health Sciences)	<i>Lore of Running</i>
2004	MS Blackman (Law); RD Jooste (Law); GK Everingham (Law)	<i>Companies Act: Commentary</i>
2005	N Natrass (Commerce)	<i>The Moral Economy of Aids in South Africa</i>
2006	P Knox-Shaw (Humanities)	<i>Jane Austen and the Enlightenment</i>
2007	W Nasson (Humanities)	<i>Britannia's Empire – Making a British World</i>
2008	P Bruyns (Science)	<i>Stapeliads of Southern Africa and Madagascar</i>
2009	P Skotnes (Humanities) N Penn (Humanities)	<i>The Archive of Willem Bleek & Lucy Lloyd</i> <i>The Forgotten Frontier</i>
2010	C Vaughan (Health Sciences)	<i>Imagining the Elephant: A Biography of Allan Macleod Cormack</i>
2011	JC De Villiers(Health Sciences)	<i>Healers, Helpers and Hospitals: A history of military medicine in the Anglo-Boer War</i>
2012	<i>No award made</i>	
2013	S Loots	<i>Sirkusboere</i>
2014	N Natrass	<i>The AIDS Conspiracy: Science Fights Back</i>

THE UNIVERSITY BOOK AWARD (CONTINUED)

The book award for 2015 is to be awarded to:

Sa'diyya Shaikh

Sufi Narratives of Intimacy

What is the nature of being human within the Islamic tradition? What does it mean to be a *gendered* human being? These are two questions that Sa'diyya Shaikh's book on thirteenth-century Sufi poet, mystic, and legal scholar, Muhyi al-Din Ibn al-Arabi, seeks to answer. Shaikh grounds her research in Islamic epistemology, and attends to the ways in which Sufi metaphysics and theology allow for fundamental shifts in Islamic gender ethics and legal formulations. In so doing so, she addresses the wide-ranging contemporary challenges of our times such as questions of Muslim women's rights in marriage and divorce, the politics of hijab, and women's leadership of Islamic ritual prayer.

Drawing on Ibn Arabi's approach to the nature of being human, the book deconstructs traditional binaries between the spiritual and the political, between private conceptions of spiritual development and public notions of social justice, and between the realms of inner refinement and those of communal virtue. As such this book raises a number of critical questions and possibilities on the nature of selfhood, subjectivity, spirituality and society. This work contributes to debates in Islamic feminism as well as feminist ethics more broadly.

The book has received positive reviews in international journals. Dilyana Mincheva (*Religion and Gender*) describes it as "a groundbreaking feminist study...the unmatched merit of Shaikh's study is in her sensitivity towards the complexity and profundity of the religious concepts involved... Such an analytical attempt is currently non-existent in the scholarly literature on religion and gender and, most probably, Shaikh's work will serve as a landmark study for future developments," while Vernon Schubel in the *American Journal of Islamic Social Sciences* states that "it succeeds brilliantly as a scholarly examination of Ibn Arabi's work and as an example of feminist scholarship at its very best"

MERITORIOUS PUBLICATION AWARD

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

Biko: A Life by Xolela Mangcu

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.

Mark Fleishman

“Every Year, Everyday, I am Walking”

Every Year, Everyday, I am Walking, created by Mark Fleishman in collaboration with performers, Jennie Reznick and Faniswa Yisa, was created at the end of 2006 as a commission from the African Festival for Children and Youth Theatre in Yaounde, Cameroon. It has been performed almost continuously since then throughout South Africa and in 18 countries around the world: Cameroon, the UK (3 times), Namibia, Zimbabwe, Botswana, Zambia, Tanzania, Malawi, Swaziland, Mozambique, Argentina, India, Brazil (twice), Sweden, Japan (twice), Germany, France and the USA.

Every Year, Everyday, I am Walking traces the perpetual movement across the continent and towards Cape Town of a mother and daughter from an unnamed francophone African country whose home has been destroyed through violent action and then chronicles the difficulty of their integrating in Cape Town. It attempts to make the ‘invisible’ community of migrants visible through theatre by using the body as a surface on which to read the traces of experience laid down through the perpetual movement those who have been displaced from the places they call home are doomed to, and in ways that remain true to the silencing at the heart of the migrant experience, the loss of language, voice and agency and the unspeakability of an environment suffused with intense and persistent violence and the various registers of affect that it engenders.

The production sets out to capture this “unspeakability” of the experience of displacement; the sense of “being-on-the-move” at the heart of this experience; the haunting presence of those, and that, left behind and all with the minimum of means. It chooses to limit the words spoken and to use the body as the primary means of expression, to search for a vocabulary of gestures, physical images and choreographic sequences and a sense of disrupted flow, a stop-start rhythm of perpetual movement set against a dense original musical score by South African musician and composer, Neo Muyanga.

The combination of musical score and the compounding and growing sense of despair articulated through the physical expression creates a dense and unrelenting tapestry of affect that expands in the open space as the audience is moved from the playful innocence of childhood to the unbearable experience of displacement. At the same time it manages to modulate the sense of despair through humour, the careful treatment of character and relationship, and the beauty of its physical score. All of this allows for a sense of hope and possibility to remain with the audience when they leave the theatre.

HONORARY DEGREE RECIPIENT

Okwui Enwezor
DLitt (honoris causa)

Okwui Enwezor is a curator, art critic, editor and writer whose practice spans the world of international exhibitions, museums, academia, and publishing. His focus is African, European, Asiatic, North and South American art of the 20th and 21st Century, the modern and contemporary art of Africa, and the contemporary art of the African diaspora. Enwezor's research includes video and photography, archives theory, photographic documentation, photojournalism and museums history. He also studies theories on diasporas and migrations, of post-colonial modernism and the architecture and urbanism of post-colonial African cities.

Enwezor has held academic positions at the San Francisco Art Institute; the University of Pittsburgh and the University of Illinois; UrbanaChampaign; Columbia University, New York; and the Institute of Fine Arts, New York University. He was Artistic Director of the 2nd Johannesburg Biennale (1996-1998), of *documenta* 11 in Kassel (1998-2002), the Bienal Internacional de Arte Contemporaneo de Sevilla (2005-2007), the 7th Gwangju Biennale (2008) and the Triennial d'Art Contemporain in Paris (2012).

Enwezor has published numerous monographs and founded "*NKA: A Journal of Contemporary African Art*". His exhibitions include: *ECM A cultural Archaeology* Haus der Kunst, Munich; *Century City* Tate Modern, London; *In/Sight: African Photographers, 1940-Present*, Guggenheim Museum; *Global Conceptualism*, Queens Museum, New York; *David Goldblatt: Fifty One Years*, Museum of Contemporary Art, Barcelona; *Stan Douglas: Le Detroit*, Art Institute of Chicago; *Snap Judgments: New Positions in Contemporary African Photography*, International Centre of Photography, New York; *The Unhomely: Phantom Scenes in Global Society*, Centro Andaluz de Arte Contemporaneo, Seville; *Archive Fever: Uses of the Document in Contemporary Art*, International Centre of Photography, and *Rise and Fall of Apartheid* (New York, Germany, Italy and South Africa).

Enwezor's scholarship has made an exceptional contribution to the international promotion of South African art and photography, and raised very significant theoretical, historical and political questions.

HONORARY DEGREE RECIPIENT

John Britten Wright

DLitt (honoris causa)

John Britten Wright, a pre-eminent scholar and a gifted linguist, is responsible for the bulk of the work that opens the James Stuart Archive to research and for a large body of research on the later eras of the pre-colonial past of south-east Africa. The pre-colonial past is one of the most under-researched areas of southern African history, and the one where the overlay of colonial- and apartheid- era obfuscation is both the most prevalent and pernicious. Wright's scholarship enables the stripping away of this overlay, and lays the groundwork for serious scholarly alternatives.

Much of his scholarship has been dedicated to the James Stuart Archive – a unique record of transcriptions made between 1890 and 1910, of the events and thinking that prevailed in the nineteenth century as described by the indigenous inhabitants of the region. The six volume *James Stuart Archive* is a central source for the history of south-east Africa before 1910. Through its careful editorial interventions and translations it has opened the material to researchers from a range of disciplines and enables scholars to move beyond colonial-era orthodoxies.

The fifth volume met with wide acclaim, and was awarded the Text Prize of the African Studies Association (USA) in 2003 for the best edited work. Wright has also written about the *creation* of the volumes, describing the complexity of the task, meticulous nature of the methodology, the challenges of the translation from archaic Zulu, and the ways editorial decisions in turn influenced its published form.

Wright's contributions to scholarship on late independent and early colonial history of the region has shaped the field and challenged the settler versions of the history. The University recognises and honours John Britten Wright for his extraordinary scholarship on the pre-colonial history of the region and his development of archive that enables wider scholarship.

**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: Professor S Buhlungu

**ADVANCED CERTIFICATE
IN EDUCATION**

*In Education Management and
Leadership Development:
Patricia Ningiza*

**HIGHER CERTIFICATE IN
EDUCATION IN ADULT
EDUCATION**

*Leon Sebastian

**DIPLOMA IN THEATRE
AND PERFORMANCE**

Nceba Mpiliswana

**POSTGRADUATE DIPLOMA
IN LIBRARY AND
INFORMATION SCIENCE**

Mathabo Martha Monaheng Dyi
*Nomazizi Helen Makhlima
Lucia Matshediso Malefane
*Neo Edwin Molemela
*Xolani Njobe

**POSTGRADUATE DIPLOMA IN
MUSIC IN PERFORMANCE**

*Adéle Wyngaard

**POSTGRADUATE
CERTIFICATE IN EDUCATION**

In Intermediate and Senior Phase:

Al-Marie Samuels

In Senior Phase and

FET Teaching:

Frank Sylvio Gahapa Talom

**POSTGRADUATE DIPLOMA
IN EDUCATION**

*Jane Louise Gallagher

*Lebohang Thomas Letsela

2. FACULTY OF SCIENCE

Dean: Professor A le Roex

**DEGREE OF BACHELOR
OF SCIENCE**

*Chelsea Robyn Berg
Nicole Botha
Rebecca Teresa Carlisle
Kieren Paul Davies
Tiffany Christen de Klerk
Sbusisiwe Michelle Dlamini
*Fungai Dube
*Craig Scott du Preez
Dylan Giffard
*Dylan Conway Henderson
Nolizwe Nontokozi Hlope
*Sarah Cecilia Hotz
*Dylan Jean Husted
Sesupo Oteng Khutsoane
Michelle Catherine Lee Sun
Nokwethaba Zamanguni
Makhanya
Ayanda Rutherford Mayeza
Keith Henry Moss
Fumani Gladness Mpikanisi
Mandisa Mqolombeni
Musa Rodrick Ndlovu
Fortune Nkululeko Ntlantla
Simangele Nxele
Saleema Paleker
Sa'Ad Ed-Din Peerbocus
Tsireledzo Rambuwani
Jonathan Joseph Rayner
Aminah Rujub

Nicola Frances Rule (with
distinction in Applied
Biology, Genetics and the
degree with distinction)

Carrie-Ann Urquhart

*Simone Joanne van den Berg

In Information Technology:

Phakamani Innocent Mavela

*In Mathematical, Physical &
Statistical Sciences:*

Katlego Kevin Zabala

3. FACULTY OF HUMANITIES

Dean: Professor S Buhlungu

**DEGREE OF
BACHELOR OF ARTS**

Jacki Michelle Cullen
Beth Nicole Davis
Nathan Jacob Peter Hein
Mohamed Azhar Hoosain
Dean Gilbert Lurie
Nasifa Sulaiman
*Susanna Wilhelmina van Rooyen

In Film and Media Production:

*Celine Isabel Cripps
(with distinction in Film
Studies)

**DEGREE OF BACHELOR OF
ARTS IN FINE ART**

*Rudi Le Hane
Shomwatala Ndeenda Shivute

**DEGREE OF BACHELOR
OF MUSIC**

In Composition:

Petrus Gerrit Matthee

In Performance:

*Blake Zayn Hellaby

DEGREE OF BACHELOR
OF SOCIAL SCIENCE

Mira Lily Menell Briel
*Adam Ian Buch
Gloria Paidamoyo Chikaonda
Lindsey Jane Dimond
*Vuyolwethu Gqomfa
*Joshua Hartford
*Simon William Jones
*Ridhwaan Kaka
Kundai Nigel Kambarami
*Sophie Chanchal Lalla
Boitumelo Hope Martha Likhetho
*Stuart James MacLaren
Welcome Nhlanhla Makhaye
Mzwandile Mangqangala
Georgia Louise McNee Tait
Zikhona Judy Mene
Nthabiseng Buyile Mentor
Nokulunga Immaculate Mkhize
Nosikhumbuzo Ongezwa Mququ
Tofara Clifford Musiza
Marie Gail Olivia Pougnet
Sanda Wundlu Shandu
Charissa Caroline Shay
Julian Thomas
Jaemi Jordan Widan
*Macdonald Itayi Zakeyo
Nomvuyo Cordelia Zulu

*In Philosophy, Politics
and Economics:*
(With distinction)

Robert Patrick Christison
Jenkin
Jaynisha Patel

DEGREE OF BACHELOR
OF SOCIAL WORK

Jolyon Paul Nash
*Palesa Thobile Njoko
Moagi Lesley Ramonnye

DEGREE OF BACHELOR OF
EDUCATION (HONOURS)

Nothando Msimango

DEGREE OF BACHELOR OF
ARTS (HONOURS)

In African Studies:
Jehan Bedford

In Archaeology:
*Vuyiswa Thembelihle Lupuwana

In Classical Studies:
*Briony Andrea Bristow

In Curatorship:
*Tasneem Rossouw

In Economic History:
*David Trygve Cowan

In English Studies:
(First class) Jenna Lee Kennard

In Film and Television Studies:
(First class) Stephen David Horn
Rezah Gerald Raftopoulos
Kimberley Jade Rai

*In Italian Language and
Literature:*
(First class) Chelsea Jade Johnson

In Linguistics:
*(First class) Sonya Ruth Cotton
*Christine Frith Cozien
(First class) Elizabeth Anne King
Nadine Volmink

In Media Theory and Practice:
Ochega Ann Ataguba
*Meli Mthabisi Ncube

In Philosophy:
*Allison Cox
*(First class) Thomas William
Parker
*Siena Shaker
Philip Christopher Uken

*In Philosophy, Politics
and Economics:*
(First class) Susan Sandra
Rosemary Green

In Television Drama:
Kelly Grobler
*Thembaletu Seeiso Mfebe

DEGREE OF BACHELOR
OF MUSIC (HONOURS)

In Performance:
*(First class) Francois Joubert
Botha

DEGREE OF BACHELOR OF
SOCIAL SCIENCE (HONOURS)

In Clinical Social Work:
Thembinkosi Kopele

*In Environmental and
Geographical Studies:*
*Wangezi Kinuthia

In Gender and Transformation:
*(First class) Ntokozo Sibahle
Yingwana

In Philosophy:
(First class) Gabriele Eva Teale
James
Jessica Mallorie Lee
*Gabriel Mercer Powell
(First class) Ida Signe Tomasson

In Religious Studies:
*Fergus Eoin Turner

In Social Anthropology:
*(First class) Ana Karina Menezes
de Morais
*Suzanne Michelle McGoldrick
*Min'enhle Ncube
*Thandiwe Thenjiwe Cikizwa
Ntshinga
Jo-Ann Prinsloo

4. FACULTY OF SCIENCE

Dean: Professor A le Roex

DEGREE OF BACHELOR OF
SCIENCE (HONOURS)

In Geology:
Yambi Renato Daniel Dinis

DEGREE OF MASTER
OF PHILOSOPHY

In Applied Marine Science:
Renae Catherine Logston

In Conservation Biology:
Francesca Margaret Catherine
Fazey
*Alexandra Helen Russo

In Environment, Society & Sustainability:

Karl Frederick Buckton
Adila Cassim
Juliana Arsenio Come
*Jonathan Goldman
(With distinction) Paul Hoekman
Stephanie Mary Joos-Vandewalle
Nicholas Charles Kearns
*Julia Kay Milliken

In Environmental & Geographical Science:
Tsele Tommy Nthane

In Information Technology:
Zelda Joy le Roux
Alexandria Dominique
Martinez-Farias

DEGREE OF MASTER
OF SCIENCE

In Applied Marine Science:
Dale Adam Geldenhuys
*Antonio Massot Mascaro
Ayodele Gilbert Ogunkoya
*Yuneeda Bibi Naheed
Oozeeraully
Aron Simmons

In Applied Mathematics:
*Ermias Abebe Kassaye

In Archaeology:
Nandi Thandeka Masemula

In Astronomy:
Avishek Dusoye

In Astrophysics & Space Science:
*Sheref Nasereldin Abo El Hassan
(With distinction) Lise Du
Buisson
*Anuj Misra
Amidou Sorgho
Blaise Wendyam Tapsoba

In Biological Sciences:
*(With distinction) Nikita Maxine
Finger
(With distinction) Louise Carin
Gammage
*Muhammad Irfan Nunkoo

In Botany:
*Brittany Arendse

Dunja Basic
(With distinction) Rebecca Hazel
Karpul
*(With distinction) Jennifer Marie
Leonard

In Chemistry:
(With distinction) Mpho
Charmaine Mokoena
Nomakhwezi Mvumvu
(With distinction) Gakanego
Valerie Ramaotsoa
Monde Sinxi

*In Climate Change
& Development:*
Kristen Kennedy
*Albert Novas Somanje

In Computer Science:
Scott James Badenhorst
Herah Anwar Khan
Alexander Rogath Kivaisi
Christopher Thabiso Gregory
Schollar

In Conservation Biology:
Salamatu Abdu
(With distinction) Alexander
Atkins
Bruce Dairmuid Lanham Baigrie
Jenna Nicole Bowker
Kate Cronin
*Lisle Gwynn
Marcela Paz Alejandra Espinaze
Pardo
Liezl le Roux
*Juan Fernando Millan
*(With distinction) Minke
Witteveen

*In Environmental &
Geographical Science:*
Nadia du Plessis
Myra Naik
Abongile Ngqongwa

In Geology:
*Gregory Byrnes
*Omar El Saadi
(With distinction) Michael Ian
Hay Hartnady

In Mathematics:
(With distinction) Byron Joseph
Alexander

In Mathematical Statistics:
*Rasheed Alani Adeyemi
*(With distinction) Frans Matthew
Cronje
*(With distinction) Rene Franck
Essomba

In Molecular & Cell Biology:
Tyronne Kyle McCrindle

In Ocean & Atmosphere Science:
*Marcel David du Plessis

In Ocean & Climate Dynamics:
*(With distinction) Lisa Holton
Christopher Richard Jacobs
*Lebohang Innocentia Melato

In Physics:
*Claire Antel

In Statistics:
Raeesa Ganey
Oluwatosin Seun Oladele

In Zoology:
Jessie Berndt
*Thomas Colin Morris
Blair Anthony Zoghby

5. FACULTY OF HUMANITIES

Dean: Professor S Buhlungu

DEGREE OF MASTER
OF ARTS IN FINE ART

(With distinction) Jessica Natasha
Brown

DEGREE OF MASTER OF ARTS
IN NEUROPSYCHOLOGY

Steven Harding
*(With distinction) Maja Anna
Kwiatkowski
(With distinction in the
dissertation) Talia Haidee
Lanesman
Aqeela Noor Mahomed
(With distinction) Jade Abigail
Witten

DEGREE OF MASTER OF ARTS

In African Cinema:

Norita Mdege
Luke Slade

In African Languages and Literature:

(With distinction) Lara Anne Grier
Zukiswa Poni

In Applied Drama and Theatre Studies:

Ongezwa Nomthokozisi Mbele

In Art Historical Studies:

Marc Walter Barben
Jean le Clus-Theron

In Creative Writing:

Nadia Kamies
(With distinction) Steven Lance Robins
*Caitlin Tredoux

In Documentary Arts:

(With distinction) Aliko Saragas

In Environmental and Geographical Studies:

*Inge Salo

In Film Studies:

(With distinction) Rachel Mary Winefride Cohen
*(With distinction) Andrew John Phillips

In French:

*Hasna Sosso-Alaoui

In German Language and Literature:

Thorsten Egner

In Historical Studies:

(With distinction) Michael John Glover

In Language, Literature and Modernity:

(With distinction) Heidi Barends
*(With distinction) Marilyn Elizabeth Braam
(With distinction) Kavish Chetty
(With distinction) Tara Juliette Corinna Leverton

(With distinction) Sarah Fern Middleton

In Latin Language and Literature:
(With distinction) Camilla Rose Christie

In Linguistics:

(With distinction) Simon Martin Abbott
*(With distinction) David Allen Ker

In Media Studies:

Lungile Moyo
(With distinction) Nokuthula Moyo

In Media Theory and Practice:

(With distinction) Storm Jade Brown
(With distinction) Lauren Grace Green
Sibongile Catherine Musundwa
Alexander William Sudheim

In Organisational Psychology:

*Johnathan Charles Hall
Babusi Michael Sibanda

In Political Communication:

(With distinction) Dayaneethi Govender
(With distinction in the dissertation) Sindi-Leigh Tenielle McBride
(With distinction) Rebecca Mary Elizabeth Pointer

In Psychological Research:

(With distinction) Rebecca Helman
(With distinction) Jane Frances Kelly

In Religious Studies:

*(With distinction) Daniel Clayton Adams
(With distinction) Cathlene Elizabeth Dollar
Gordon Richard Oliver

DEGREE OF MASTER OF FINE ART

(With distinction) Hanien Helena Conradie

(With distinction) Suzanne Elizabeth Beavan Duncan
(With distinction) Quanta Greer Wood Gauld

Alexandra Zarah Karakashian
(With distinction) Francois Knoetze

(With distinction) Maurice Hermes Mbikayi Lukusa
(With distinction) Sepideh Mehrabanbaghbadorani

DEGREE OF MASTER OF LIBRARY AND INFORMATION SCIENCE

(With distinction in the dissertation) Margaret Marie Koopman

Andiswa Yolanda Mfengu
(With distinction in the dissertation) Jeremiah Pietersen

DEGREE OF MASTER OF EDUCATION

In Applied Language and Literacy Studies:

*Magberto Rocha Araujo
Sharleen Renee Haupt
(With distinction in the dissertation) Mbembi Joel Mafandala

In Curriculum Studies:

Joy Petersen

In Educational Administration, Planning and Social Policy:

Landeka Diamond

In Higher Education Studies:

Linda Helen Halliday

In Primary Education:

(With distinction) Marelize Barnard
*Rebecca Jean Carder
Bonita Miriam Dunn

(With distinction in the dissertation) Benjamin Van Ees Kriel Beatha Ndahafa Set	DEGREE OF MASTER OF PHILOSOPHY IN EDUCATION	<i>In Political Communication:</i> Mologadi Welhemina Makwela
DEGREE OF MASTER OF MUSIC	<i>In Applied Language and Literacy Studies:</i> Alexander Carlton Marshall	<i>In Politics:</i> *(With distinction) Eric Jacobson Cole
<i>In Dance:</i> Jacqueline Felicity Job	DEGREE OF MASTER OF SOCIAL SCIENCE	<i>In Probation and Correctional Practice:</i> Martin Simbarashe Mangezi
<i>In Music (Dissertation and Composition):</i> (With distinction) Jacobus Krige	<i>In Clinical Social Work:</i> (With distinction) Sian Elizabeth Hasewinkel	<i>In Psychology:</i> (With distinction) Josephine Ruth Cornell *(With distinction) Chantelle Silva De Abreu
DEGREE OF MASTER OF PHILOSOPHY	<i>In Economic Development:</i> *(With distinction) Alexander Fairfax Child	<i>In Social Anthropology:</i> Kerry Leigh Vice
<i>In Development Studies:</i> Rutendo Phebie Furusa Zoë Shelley Wood Gauld *(With distinction in the dissertation) Guus Hoekman Antonio Junior Macheve *(With distinction in the dissertation) Michelle Rugema	<i>In Economics:</i> (With distinction in the dissertation) Caroline Lisa Stapleton	<i>In Social Development:</i> Carrie Bridgette Mashek Tebatso Matsela Alice Wamundiya
<i>In Diversity Studies:</i> Parveen Brown	<i>In Environmental and Geographical Studies:</i> *(With distinction) Jessica Mary Rattle Medupi Shabangu	<i>In Social Policy and Management:</i> Immaculate Nyawira Mugo *Savishna Pillai
<i>In Justice and Transformation:</i> *Craig Laurie Nudelman	<i>In Global Studies:</i> Nolwazi Nadia Ncube	<i>In Sociology:</i> Rianne Sujeewa Cornelia Elisabeth Laan
<i>In Library and Information Science:</i> *Kim Baker	<i>In International Relations:</i> Neil Alexander Berry (With distinction in the dissertation) Karusha Naidoo	
<i>In Philosophy, Politics and Economics:</i> Nchimunya Chipego Hamukoma	<i>In Organisational Psychology:</i> Crystl Bateman Megan Maire Blandin De Chalain Josh Adam Gelb Zubeida Gierdien Yeshadevi Gunesh Ryan Magee (With distinction in the dissertation) Dina Manne Charlene Omrawo Nikki Lee Steenkamer Josslyn Patricia Stevens Kudzai Rejoice Tabaziba (With distinction) Chelsea Lee Wallace	
<i>In Public Policy and Administration:</i> *Shine Chole Moon *(With distinction) Linda Aluoch Oduor-Noah		

DEGREE OF DOCTOR
OF PHILOSOPHY

*In African Languages and
Literature:*

Lulama Judith Ndlela

Thesis Title: *UPeter Tshobiso
Mtuze neenoveli zakhe*

Lulama Ndlela has a Secondary Teachers' Diploma from the Transkei College of Education; a BA Degree from the University of the Western Cape; and Bachelor (Honours) and MA Degrees from the University of Cape Town. She is head of the Department of English First Additional Language at the school where she teaches.

Lulama Ndlela's thesis explores the narrative techniques and creative genius of Peter Mtuze, a prolific Xhosa writer. Ndlela unravels Mtuze's narrative skills and techniques in all six of his novels, linking these to the novelist's biographical background and culture, thereby marking him as a brilliant Xhosa narrative artist. Ndlela has written her thesis in isiXhosa, which makes her one of the leading academics actively involved in the endeavour to intellectualize the isiXhosa Language and Literature. Her thesis, which is probably the first UCT thesis ever written in a South African indigenous language, also marks a bold step for the Humanities Faculty towards a total transformation of its staff and student community as well as its curricula. It, therefore, represents pioneering work in the creation and development of scientific Xhosa.

Supervisor: Associate Professor
Abner Nyamende (School of
Languages & Literatures)

In Education:

Helen Yolisa Hobongwana-Duley
Thesis Title: *Exploring indigenous
knowledge practices concerning
health and well being:*

*A case-study of isiXhosa-speaking
women in the rural Eastern Cape*

Helen Yolisa Hobongwana-Duley received a BA from Humboldt State University, California, and a MEd from the University of Hawaii at Hilo. Her PhD thesis was influenced by her experiences working as an educator in different countries and her interest in indigenous knowledge practices and how they relate to education.

Yolisa Hobongwana-Duley's thesis explores and analyzes health- and wellbeing-related indigenous knowledge practices amongst women in a rural Eastern Cape village, and their cross-generational reproduction. She also explores how the relationship between concepts of self, personhood and Ubuntu informs women's agency and the possible potential their knowledge practices have for augmenting inclusive and relevant learning tools. Drawing from Giddens' critical theory, the African philosophy and sociology of Ubuntu and post-Vygotskian Cultural Historical Activity Theory, she reveals the presence and creation of constantly evolving cultural norms, all influenced by multiple knowledge systems. Duley's thesis contributes to theories of knowledge and of knowledge reproduction, especially as regards informal learning. Her insights are applicable for developing curricula that acknowledge and include indigenous knowledge practices, processes of informal knowledge reproduction and multiple knowledge practices. They also offer educators an opportunity to interrogate their own pedagogies and school curricula, and to reassess their relevance.

Supervisor: Dr L Cooper
(Education)

Co-supervisors: Dr. S. Ismail

(Education); Professor C Soudien
(School of African and Gender
Studies, Anthropology and
Linguistics)

Cheng-Wen Huang

Thesis Title: *Argument as design: a
multimodal approach to academic
argument in a digital age.*

Cheng-Wen Huang has a Masters in English from the University of Cape Town. Her PhD thesis emerged from her teaching in Film and Media and her interest in academic writing and digital spaces.

Cheng-Wen Huang's thesis examines academic argument in comics, as well as in digital video and PowerPoint. She explores the ways in which these multimodal texts enable reconsideration of what constitutes academic argument and what counts as evidence in different genres. Huang establishes a metaview of academic argument which looks at organizational structures and how they reflect the logic of argument, rhetorical strategies employed, and the ways in which 'difference' is established in different media. A framework which combines rhetoric and social semiotics is proposed. It offers analysis of ideational content, the ways social relations are established, and how organising principles assist in establishing coherence in argument. The significance of the study is threefold. Theoretically, it contributes towards theorising argument from a multimodal perspective. Methodologically, it puts forward a framework for analysing multimodal argument. Pedagogically, it contributes towards developing and interrogating a pedagogy of academic argument that is relevant to contemporary communication practices.

Supervisor: Dr A Archer
(Centre for Higher Education)

Keith Ronald Jacobs
Thesis Title: *The classroom implementation of indigenous knowledge in the science curriculum by science teachers in the Western Cape Province, South Africa*

Keith Jacobs was born in Cape Town in 1955. He obtained a B.Sc and B.Sc (Hons.) degree from University of the Western Cape, a Higher Diploma in Education from the University of South Africa, an Advanced Diploma in Adult education and a M.Ed. from the University of Cape Town.

Keith Jacob's thesis investigates the problems science teachers encounter when they attempt to integrate indigenous knowledge (IK) into their lessons, as mandated by recent South African curriculum reforms and associated policy documents. A mixed-method research design was used, and consisted of sequential quantitative data and qualitative data collection phases. A finding of the study is that the worldview that each teacher brings into the classroom has implications for approaches teachers use to integrate IK into their lessons. The qualitative study phase showed that teachers' backgrounds (i.e., cultural, political and social) influence how they interpret and implement IK integration in their teaching. However, he shows that appropriate training enhanced teachers' IK content knowledge and made them less dependent on the learners for examples of IK. The importance of professional development and in-service training in the successful implementation of indigenous knowledge in the school science curriculum was highlighted.

Supervisor: Associate Professor Rüdiger Laugsch (School of Education)

Sibusiso Clifford Ndlangamandla
Thesis Title: *When police become postgraduates: an intertextual analysis of research proposals in the MTech Policing at an ODL University*

Sibusiso Ndlangamandla is a Lecturer in UNISA's Department of English Studies which he joined when Technikon South Africa merged with UNISA. He has helped establish UNISA's writing (academic literacies) centres and has published and presented conference papers on multilingualism in desegregated schools, and on academic literacy in Open Distance Learning.

Sibusiso Ndlangamandla's thesis investigates how professional and academic discourse practices intersect in the research proposals of MTech Policing postgraduate students at an Open Distance Learning (ODL) institution. He locates his study in the academic literacies field which analyses students' texts and their social practices in order thereby to challenge deficit framing of their writing abilities. Using Critical Discourse Analysis alongside an ethnographic framing of professional post-apartheid policing practices, he describes how those practices are recontextualised in students' academic writing and how that reveals the nature of the tensions that students experience in writing research proposals. Such tensions, he shows, relate to discordant workplace and professional identities and, at times, to unequal power relations between policing and educational institutions.

Ndlangamandla's thesis offers guidance to supervisors and writing instructors about the challenges that postgraduate students face, especially in ODL institutions which cater explicitly for part-time postgraduate study linking workplace experience and university-based research.

Supervisor: A/Professor M Paxton (Centre for Higher Education Development)

Co-supervisor: A/Professor L Thesen (Centre for Higher Education Development)

In Environmental and Geographical Studies:

Johanna Magdalena Lotter
Thesis Title: *Potential implications of climate change for rooibos (A. linearis) production and distribution in the greater Cederberg region, South Africa*

Daleen Lötter holds an Honours degree (with distinction) from the North-West University, and a Master's degree in Geography from the University of Stellenbosch. Her thesis emerged from of her engagement with the rooibos tea industry while working in the conservation sector. Since 2009 she has been working at the CSIR's climate modelling group, where she has developed long-standing collaborations with both large-scale and smallholder commercial rooibos farmers in the Suid Bokkeveld and Sandveld areas.

Daleen Lötter's thesis describes the potential for climate change to induce distributional shifts for *A. linearis*, as well as broadening scientific knowledge on the eco-physiological response and adaptive traits of the species to climate stresses. This work combines climate trend analyses, climate model scenarios of the future, ecological modelling and eco-physiological methods to investigate physiological constraints and adaptive capacities of cultivated and wild *A. linearis* types. Through this multi-disciplinary approach, new insights have been developed into how *A. linearis* will respond to novel climatic conditions in the future. The findings of this study provide new insights to guide geographically specific actions for conservation planning, monitoring and future research, as well as developing adaption strategies for sustainable rooibos production.

Supervisor: Dr E Archer
(Environmental & Geographical
Science)

Co-supervisors: Dr M Tadross;
(Environmental & Geographical
Science); Professor A Valentine
(Botany and Zoology, Stellenbosch
University)

In Fine Art:

Charlayn Imogen von Solms
Thesis Title: *A Catalogue of
Shapes: a Composite Object
Portrait of an Oral-Formulaic
Homer*

Charlayn von Solms has a BA
Fine Art and a Master of Fine Art
from the University of Cape Town,
and an M Phil (Ancient Cultures)
from Stellenbosch University.
She was approved as a candidate
for the PhD at the University
of Cape Town in April 2011.

Charlayn von Solms' thesis is the result of practical and theoretical research at the Michaelis School of Fine Art, University of Cape Town. Her thesis identifies an equivalence between two disparate art forms – Homeric poetry (the Iliad and the Odyssey) and sculptural assemblage. The thesis proposes that Homeric poetics and sculptural assemblages are sufficiently similar in terms of structure, methodology and interpretive processes to enable a sculptural evocation of the participatory interpretive aspects of Homeric composition in performance. A Catalogue of Shapes 2010-2013 is an installation of twelve sculptural assemblages representative of the poetics of the Homeric epics. In this context Homer is conceived of not as an historic figure or mythic persona but as the creative methodology underlying the Iliad and the Odyssey. The artist aims to demonstrate how sculptural assemblage resembles oral-formulaic composition as a multiform system of representation.

Supervisor: Emeritus Professor B
Arnott (Michaelis School of Fine
Art)

Co-supervisor: Associate Professor
C Chandler (School of Languages
and Literatures)

*In Italian Language
and Literature:*

*Patrizia Linossi
Thesis Title: *Grazia Deledda
epistolografia*

Patrizia Linossi has a Masters
Degree in Italian Studies
from the University of Rome
"La Sapienza", and a post-
graduate diploma in Teaching
Italian as a Foreign Language
from the University for
Foreigners in Siena. She has been
a full-time Italian elementary
school teacher since 1995.

Patrizia Linossi's thesis is
a historical and theoretical study of
letter-writing and associated forms
(like autobiography) in the work
of Sardinian Nobel Prize winning
author, Grazia Deledda, between
1890 and 1935. Linossi analyses
the tones and language used in
Deledda's letters by tracking the
formal rules of the rhetoric typical
of the epistolary genre. She comments
on and classifies Deledda's
countless private and professional
correspondents and pays particular
attention to the literary projects and
artistic intentions Deledda proposed
in those letters. Her comparative
study of Deledda's letters and
novels enables her to trace thematic
continuities in both. Her thesis has
the merit of constructing a rich and
full portrait of Deledda, something
that previously, having been based
exclusively on analyses of the
author's novels, was incomplete
and partial. Patrizia Linossi's
thesis demonstrates how Deledda's
letter-writing was the foundry in
which the author hammered into
shape her characters and concerns
as they appear in her novels.

Supervisor: A/Professor G
Tuccini (School of Languages and
Literatures)

*In Library and Information
Science:*

Thomas Matingwina
Thesis Title: *Health information
dissemination among
undergraduate students in
Zimbabwe with particular
reference to the National
University of Science and
Technology: a study in developing
an integrated framework for health
information dissemination*

Thomas Matingwina obtained his
BSc. Honours and Masters Degrees
in Library and Information Science
from the National University
of Science and Technology
in Zimbabwe. His area of
research interest is information
management in health, agriculture
and development studies.

Thomas Matingwina's
thesis assesses the health
information needs of students
and evaluates existing health
information dissemination methods
at the National University and
Science and Technology (NUST) in
Zimbabwe. The study is informed
by the Salutogenetic Theory of
health which culminated into an
integrated theoretical framework
that combines information
dissemination and behaviour change
theories. A case study strategy
was used to gather data within the
pragmatic paradigm of grounded
constructivism. Questionnaires,
interviews and focus group
discussions were used to gather data
from a sample of 600 students and
selected NUST staff. The findings
reveal that there are significant
gaps between the strategies that are
being used by NUST to disseminate
health information and the health
information needs of the students.
NUST needs to use more interactive
and ICT based information
dissemination methods. There is
also a need for staff recruitment,
training and infrastructural
development. The success of
health promotion programmes will
be influenced by integration of
activities, a viable policy, health
information literacy training and

the use of a mix of persuasion techniques. The study proposes a needs-based, integrated information dissemination framework for promoting health amongst students at NUST, and in the process informs health information dissemination theory and praxis.

Supervisor: A/Professor J Raju
(Library and Information Science)

In Media Studies:

Selina Linda Mudavanhu
Thesis Title: *A study of Radio Zimbabwe's messages and audiences in a time of crisis*

Selina Mudavanhu holds a BA, a Postgraduate Diploma and an MA in Media Studies from the University of Zimbabwe.

Selina Mudavanhu's thesis contributes to scholarship about Zimbabwean media by using poststructuralist approaches to language, discourse and subjectivity to study Radio Zimbabwe's broadcasts and audiences during a time of crisis. While most researchers have analysed the print media's representations of aspects of the 2011 crisis, this study extends that work by critically examining mainstream discourses on Zimbabwe's state radio station between March and April 2011. The study also investigates how women listeners of Radio Zimbabwe living in a rural community engaged with those discourses. In her study, Mudavanhu identifies discourses on land, the liberation struggle, the father of the nation and Christianity as central to ZANU-PF's drive to construct political legitimacy. She shows how these discourses were also crucial in delegitimising opposition political contenders. Describing how the women in her study took up different positions in relation to the mainstream broadcast discourses, Mudavanhu shows that while most affirmed hegemonic ideas, some contested them.

Supervisor: Dr W Chuma
(Centre for Film and Media Studies)

In Philosophy:

*Therese Marie Dewhurst
Thesis Title: *Knowledge through communication: a response to the question of how testimony based knowledge is possible*

Therese Dewhurst has BA and MA degrees from Rhodes University, the latter with distinction.

Therese Dewhurst's thesis tackles the problem of testimonial knowledge within the framework of Cassam's multi-levelled approach to 'how possible' questions in epistemology. She identifies the obstacle to testimonial knowledge as its 'second-hand nature', which entails that, to impart knowledge, the speaker must be both sincere and competent. Following Cassam she distinguishes two approaches to addressing the obstacle: overcoming and dissipation. She suggests that extant approaches are best seen as versions of the overcoming strategy, for which she raises a general concern. She notices that on an externalist conception of knowledge the dissipating strategy becomes plausible, and she shows how to implement it. Turning to the enabling conditions of testimonial knowledge, she argues that a proper understanding of communication shows that the speaker makes her knowledge available to a speaker in an appropriate communicative act and that the speaker is able to pick up this knowledge merely on the basis of having understood the speaker. So the conditions for successful communication suffice to account for the possibility of testimonial knowledge.

Supervisor: Professor B Weiss
(Philosophy)

Co-supervisor: Dr D Chapman
(Philosophy)

In Psychology:

*Sahba Nomvula Besharati
Thesis Title: *Cognitive, social and emotional processes in unawareness of illness following stroke*

Sahba Besharati obtained all her previous degrees (B. Soc. Sc., B. Soc. Sc. (Hons.) and M.A.) from the University of Cape Town. The present thesis concerns a striking neurological disorder (called anosognosia) in which the patient is paralysed on the left side of the body but is unaware of the paralysis and has the subjective experience of being able to move normally. The thesis is predicated on the hypothesis that anosognosia is not mediated by simple sensory-motor impairments but rather by complex cognitive and emotional factors associated with right hemisphere cerebral functions. The findings in a series of experiments with 49 patients demonstrates firstly that anosognosia is associated with highly specific lesion sites within the right hemisphere, secondly that it is mediated by negative (but not positive) emotions, thirdly that it is associated with deficits in the cognitive capacity to adopt a third-person perspective, and fourthly that successful rehabilitation strategies can be implemented based on these insights into the underlying mechanism of the condition.

Supervisor: Professor M Solms,
(Psychology)

Co-supervisor: Dr K Fotopoulou
(Research Department of Clinical, Educational and Health Psychology, University College London)

Christopher Peter du Plooy
Thesis Title: *The effects of acute stress on visual and spatial memory retrieval*

Christopher du Plooy has a BA from the University of KwaZulu-Natal, and an Honours degree from UCT. His initial registration for a Master's degree at UCT was upgraded to a PhD registration.

Christopher du Plooy's doctoral thesis investigates the effects of an acute stressor, and of prednisone administration, on retrieval of visual-spatial material. Two pilot studies show that (a) a novel visual-spatial task, using virtual environment (VE) technology, is a suitable human analogue for a widely-used animal learning paradigm, and (b) a novel laboratory-based psychosocial stressor is a suitable substitute for the foot-shock stressor commonly used in animal studies. Following these validation studies, Study 1 explores the effects of the psychosocial stressor on memory retrieval in the VE, and Study 2 explores the effects of a 25mg prednisone dose on the same memory task. Results show that neither acute stress nor prednisone administration impaired visual and spatial memory although exposure to the acute stressor seems to enhance verbal memory in women, and prednisone administration seems to impair verbal memory in both men and women. No existing theoretical framework accounts fully for this pattern of data, but the current results are consistent with a functional perspective on memory.

Supervisor: Associate Professor KGF Thomas (Psychology)

Co-supervisor: Associate Professor E Meintjes (Human Biology)

Sarah Frances Gordon
Thesis Title: *Imagining fear: Exploring the psychological impact of a culture of violence on women*

Sarah Gordon obtained her Bachelor's, Bachelor (Honours) and Master's degrees in Psychology from the University of KwaZulu-Natal (UKZN). Her PhD thesis emerged as a result of her previous research on gender-based violence at UKZN and her community work.

Sarah Gordon's thesis aims to explore how young women's lives and identities are transformed by their living in a South African culture of violence against women. Her qualitative, biographical-interpretive study conducted free-association narrative interviews with female UCT students and used an interpretive analysis drawing on discourse analysis, narrative theory and psychoanalysis. Through her study she found that a discourse of subordinate femininity is reproduced through participants' narratives of family violence, fear and vulnerability, and through their discourses of feminine self-regulation and transgression. Reproduction of and resistance to a discourse of subordinate femininity is central to how the women with whom Ms Gordon worked constructed their identity. Exploring their narratives and discourses allowed Ms Gordon to argue that all women, regardless of their experiences of victimisation, are affected by the prevalence of violence against women in society. Sarah Gordon's research addresses several gaps in the existing literature and is groundbreaking in terms of its unique subject matter, theoretical contributions and social significance.

Supervisor: Associate Professor F Boonzaier (Psychology)

Stephen David Keggie
Thesis Title: *A human rights violation during the South African transition: documenting narratives of the 1993 Highgate attack in a support group context*

Stephen Keggie has a BA(Hons) degree from UCT and an M.Litt from Strathclyde University, Scotland.

Stephen Keggie's thesis focuses on a support group that was formed in November 2006 for survivors and family members of the (mainly white) victims of the 1993 attack on the Highgate Hotel in East London. The purpose of the support group was to help the group members come to terms with new information that had emerged during the TRC about the attack: that it was not perpetrated by the armed wing of the PAC, as previously assumed, but rather by the apartheid security forces. Stephen Keggie conducted multiple interviews with the survivors, interviews that revealed various ways this new information from the TRC had affected the interviewees' life story narratives. In his thesis Keggie considers the resultant qualitative interview data in relation to the large literature on trauma and testimony. In doing so he clarifies the role of the support group in the victims' psychological healing processes.

Supervisor: Professor M Solms (Psychology)

Jacqueline Carol Mthembu
Thesis Title: *Negotiating masculinities: studying risk behaviours associated with performances of 'coloured' masculinities*

Jacqueline Mthembu has an MA in Research Psychology from the University of the Western Cape. She works in the HIV/AIDS, STIs and TB Research Unit at the Human Sciences Research Council.

Jacqueline Mthembu's thesis emerged from her interest in the study of marginalised masculinities and risk behaviour amongst men. In it she aims to examine the relationship between conformity with hegemonic masculinity, gender role stress and risk-taking behaviours among Coloured men. She further explores the subjective ideas men hold about 'what it means to be a man'. Hostile sexism emerges as significantly associated with men's conformity to traditional (normative) masculinity. The qualitative data Ms Mthembu presents confirm that performances of hegemonic masculinity include displays of hostile sexism, the use of violence and risk-taking behaviour. Her findings suggest that marginalised men's performances of masculinities are heavily constrained by their contexts. Those contexts are linked to poverty, to behaviours associated with violence toward women, and to risky alcohol consumption. The thesis shows that marginalised men are limited at structural, representational and political levels, all of which encourage performances of masculinity that are potentially detrimental to them as also to women and their families, and to the communities of which they are part.

Supervisor: Dr F Boonzaier
(Psychology)

Co-supervisor: Emeritus Professor
D Foster (Psychology)

Taryn Jill van Niekerk
Thesis Title: *Respectability, morality and reputation: Social representations of intimate partner violence against women in Cape Town*

Taryn van Niekerk holds a BSocSc, BHons and MSocSci in Psychology from the University of Cape Town. Her PhD emerged from a longstanding interest in the intersections of masculinity and intimate partner violence against women.

Taryn van Niekerk's doctoral research examines the social representations of intimate partner violence amongst violent men, their social networks, and within the local media. The data was drawn from two marginalised communities in the greater Cape Town area. The study involves a critical analysis of violence as a social act. It employs a unique methodology to sample domestically violent men and their social networks. The work illuminates the cross cutting and recurring representations of victims, perpetrators and violence itself that emerge in the accounts of perpetrators of violence and their social networks, as well as in the local media. These recurring representations highlight the intersectional nature of violence against women and provide some insight into its maintenance. Suggestions for prevention and interventions for perpetrators and victims of intimate partner violence, and practical recommendations for improved journalistic practice are provided.

Supervisor: Associate Professor F
Boonzaier (Psychology)

In Social Anthropology:
Andrew Michael Carl Hartnack
Thesis Title: *Cultivations on the Frontiers of Modernity: Power, Welfare and Belonging on Commercial Farms Before and After "Fast-track Land Reform" in Zimbabwe*

Andrew Hartnack holds Bachelor of Social Science (Honours) and Master's degrees from Rhodes University. His PhD research grew out of his previous postgraduate research on displaced farmworkers in Zimbabwe, as well as over a decade of experience working with and for non-governmental organisations around southern Africa.

Andrew Hartnack's thesis examines the history and dynamics of welfare initiatives on largely white-owned commercial farms in colonial and postcolonial Zimbabwe. It also examines the impacts of the controversial "Fast-track Land Reform Program", which commenced in the year 2000, on farm welfare initiatives and on those who were involved in them as implementers or beneficiaries. With a particular focus on an aspect hitherto neglected in the literature: the role of white "farmers' wives" on commercial farms and in such initiatives, the thesis shows how welfare endeavours were a crucial aspect both of power relations between white farmers and black farmworkers and of the identity of white farm owners in colonial and postcolonial Zimbabwe. Andrew Hartnack also shows that power relations on commercial farms were, and continue to be, dynamic and contested by farmworkers, despite their continued marginalisation and exploitation in the post land-reform era.

Supervisor: Professor F.C. Ross
(School of African and Gender
Studies, Anthropology and
Linguistics)

In Sociology:

Jan-Christof Schenk

Thesis Title: *New Distinctions: The impact of class and race on the cultural preferences of youth in Cape Town and Belo Horizonte*

Jan Schenk came to UCT from Germany. After completing his Master's degree, he progressed to a PhD. His research took him not only into schools across Cape Town, but also to Belo Horizonte in Brazil. He currently runs a small survey research company in Cape Town.

Jan Schenk's thesis examines the relationships between musical tastes, preferences among radio stations, and racial identity among young people in Cape Town (South Africa) and Belo Horizonte (Brazil). Drawing on the social theory of Pierre Bourdieu, and using both quantitative and qualitative data collected in secondary schools in the two cities, he examines how music tastes and media consumption are associated with distinctions of race and class. He finds that music taste and media consumption both reflect and serve to constitute race and class in these two cities.

Supervisor: Professor J Seekings (Sociology)

Eric Schollar

Thesis Title: *The primary mathematics research project: 2004-2012: An evidence-based programme of research into understanding and improving the outcomes of mathematical education in South African primary schools*

Eric Schollar graduated from Wits in 1971. He lived, studied and worked in Australia for twelve years, returning to South Africa in 1985. For more than twenty years he has been conducting evaluations of school improvement programmes across South Africa.

Eric Schollar's thesis examines why most South African primary school children are very often far behind the minimum standards for mathematics for the grades in which they are enrolled. He shows that it matters how teachers teach: 'Outcome-based education' led to South African teachers avoiding the kinds of direct and guided mathematical instruction that neurocognitive scientists have shown to be crucial to the development of mathematical competencies.

Schollar's thesis reports on the design, implementation and evaluation of a programme of interventions in teaching practices in public primary schools. It demonstrates that short interventions can dramatically improve children's mathematical competencies, and that they can be "scaled up" on a large scale. The thesis transforms our understanding of the vexing problem of South African children's mathematical skills weaknesses. It shows that methodological forms used in classrooms do matter to learner performance, and it contributes to the growing literature on the implications of the findings of neurocognitive science for education.

Supervisor: Professor J Seekings (Department of Sociology)

Ralph Ssebagala

Thesis Title: *The dynamics of consumer credit and household indebtedness in South Africa*

Ralph Ssebagala was born in Uganda. He holds Honours and Master's degrees from the University of the Western Cape. In 2011, having won a scholarship to spend a year at the University of Massachusetts, he was denied a visa by the US government. A Japan Foundation Research Fellowship enabled him to spend 2011-12 at Tokyo's Waseda University.

Ralph Ssebagala's thesis contributes to our understanding of consumer credit in societies such as contemporary South Africa. Focusing on the 2006 National Credit Act that sought to restrain 'irresponsible' lenders, Ssebagala's thesis uses survey data to argue that the Act's emphasis was misplaced. He shows that consumers generally take on debt in response to long-term (life cycle) consumption needs and their present and expected future resources; and that default results from unfortunate events ('shocks') that disrupt income streams – 'responsible' borrowers incur repayment problems when (for example) they lose their jobs – rather than excessive spending. Ssebagala argues that this reveals a need for strong debt-relief and rehabilitation programmes rather than tight regulation of lenders. Concluding with a review of debt-relief programmes elsewhere, he proposes that South Africa should introduce a simple mechanism for debt discharge akin to 'fresh start' debt relief measures used elsewhere.

Supervisor: Professor J Seekings (Sociology)

6. FACULTY OF SCIENCE

Dean: Professor A le Roex

DEGREE OF DOCTOR OF PHILOSOPHY

In Applied Mathematics:

Ikenna Ebubechukwu Ireka

Thesis Title: *Computational Analysis of Non-Isothermal flows of Non-Newtonian fluids*

Ikenna IREKA has a BSc and MSc in Mathematics from the prestigious Obafemi Awolowo University Ile-Ife, Nigeria. His PhD thesis emerged as a result of his passion for the applicability of mathematics to diverse areas of practical and industrial relevance, particularly in the analysis of the dynamics of complex fluids.

Ikenna Ireka's thesis explores the complex behaviour and dynamics of complex fluids under various physical conditions. Firstly, we investigate the effects of wall slip and non-isothermal conditions on the pipe flow of non-Newtonian fluids of the Johnson-Segalman type, with emphasis on the onset of shear banding. We follow this up with a related study on the effects of polymer diffusion, geometric constrictions and fluid injection on annular flow of the same class of fluids. Both investigations are conducted under non-isothermal and wall slip conditions. Finally, we present a computational modeling of the self-expansion processes in reacting polymeric foam mixtures, the aim being to provide accurate predictions for the expansion processes as well accurately capture the temperature distributions. The mathematical formulation here introduces experimentally motivated non-divergence free frameworks for the continuity equation, necessary to capture the experimentally observed self-expansion phenomena. Robust numerical techniques are developed and employed to track all solutions.

Supervisor: Dr T Chinyoka
(Mathematics and Applied Mathematics)

Bishop Mongwane

Thesis Title: *Problems in cosmology and numerical relativity*

Bishop Mongwane has a BSc from University of Limpopo (Turffloop Campus), an honours degree from North-West University (Potchefstroom Campus) and a Masters degree in Astrophysics and Space Science from the University of Cape Town.

Bishop Mongwane's thesis has two distinct thrusts. The first part investigates new ways of amplifying cosmological magnetic fields by gravitational waves using the machinery of non linear perturbation theory, which involves the coupling of Maxwell's equations with the Einstein field equations of gravity. The topic of cosmic magnetism is one of Square Kilometer Array key science projects. The second part is aimed at developing new innovative algorithms to address some of the shortcomings in the mesh refinement techniques that are used in numerical relativity. The emphasis is on developing a method that is stable at high resolutions, converges at a rate that is faster than typical methods and also minimises spurious artifacts in the computed solution.

Supervisor: Professor PKS
Dunsby (Mathematics and Applied Mathematics)

In Astronomy:

*Tom Mutabazi

Thesis Title: *The distance to the Norma cluster and its relation to the Great Attractor*

Tom Mutabazi has a BSc from Mbarara University, Uganda and an honours degree from the University of Cape Town as part of the National Astrophysics and Space Sciences Programme.

Tom Mutabazi's thesis aims to measure the distance to, and peculiar velocity of the Norma galaxy cluster located in the Great Attractor (GA) region in the Local Universe. The GA, of which the Norma cluster is thought to form the core, is a large mass concentration which gravitationally influences the motion of the Local Group of galaxies. While the Local Group's motion has been precisely measured, its main source has remained a debate for decades. Two nearby overdensities, the GA and the more distant Shapley Supercluster are the prime suspects. The objective of Tom Mutabazi's research is to quantify the influence of the GA in the Local Group's motion by measuring Norma's peculiar velocity to determine whether the cluster itself partakes in the large scale motions. Tom Mutabazi's analysis shows that Norma's peculiar velocity is consistent with zero indicating that the Norma cluster is likely the core of the GA.

Supervisor: Dr SL Blyth
(Astronomy)
Co-supervisor: A/Professor PA
Woudt (Astronomy)

Rojovola Zara-Nomena
Randriamanakoto
Thesis Title: *Formation of young massive star clusters: a high-resolution multi-wavelength study of intensely star-forming galaxies*

Zara Randriamanakoto was born and raised in Antsirabe, Madagascar. She obtained her Bachelor degree in physics at the University of Antananarivo, Madagascar. She then moved to Cape Town and completed her BSc Honours and MSc in Space Science and Astrophysics under the National Astrophysics and Space Science Programme (NASSP) at UCT.

Zara Randriamanakoto's thesis investigates properties of the young, massive and dense super star clusters (SSCs) in a sample of nearby starbursts and luminous infrared galaxies. By combining datasets taken with near-infrared adaptive optics instruments and archival images from the Hubble Space Telescope, she demonstrated that SSCs in strong star-forming galaxies are disrupted in a way which depends on their mass and environment. She also established the first ever near-infrared brightest star cluster magnitude vs. star formation rate relation, which can be explained by a simple statistical effect and a possible physical truncation of the mass distribution at high masses. Finally, she also derived the cluster initial mass functions of the sample and found that at least in one of the galaxies in the sample, mass-dependent rapid disruption is responsible for the deficiency of low-mass star clusters.

This work has shown the importance of studying super star cluster host galaxies with high star formation rate levels to address the details of star cluster formation and evolution and the universality of the cluster initial mass function.

Supervisor: Dr K van der Heyden (Astronomy)
Co-supervisor: Dr P Vaisanen (South African Astronomical Observatory)

In Biological Sciences:
Rachel Cooper
Thesis Title: *Systems modelling of the South African offshore demersal hake trawl fishery: an economic perspective*

Rachel Cooper holds BSc and BSc(Hons) degrees from NMMU and an MSc from UCT. Her interest in the interface of the natural environment with society led her to a PhD on a topic that cross-cuts marine ecological and economic systems.

Rachel Cooper's research was conceived within a context that recognizes that sustainable fisheries depend on the well-being of their natural ecosystem, as well as on good management based on sound understanding of their social and economic drivers and dynamics. Her thesis analyses the structure of, and changes in, South Africa's offshore demersal hake (*Merluccius capensis* and *M. paradoxus*) trawl fishery related to industry structure and exports, and creates a novel, agent-based economic simulation model of this fishery. This model, HakeSim 3.0, improves our understanding of the dynamics of the economic system of hake fishing and its links to its resource base. With this work, she demonstrates the importance of both internal, e.g. industrial organization, and external, e.g. environmental uncertainty and fuel price drivers. She also highlights the need for a better understanding of environmental stochasticity and its interactions with catch. Her research opens up the possibility for bio-economic fisheries modelling in a system context.

Supervisor: A/Professor A Jarre (Biological Sciences)
Co-supervisor: Professor A Leiman (Economics)

Emily Skye McGregor
Thesis Title: *Evaluating the implementation efficacy of an Ecosystem Approach to Fisheries in the South African sardine fishery*

Emily McGregor holds a BSc and BSc Honours from Rhodes University, Grahamstown. After a period in environmental consulting, she joined UCT's MSc course in Applied Marine Science and upgraded to pursue a PhD degree.

Emily McGregor pursued her interest in interdisciplinary research to develop methodology in support of an ecosystem approach to fisheries management. Specifically, she developed a knowledge-based tool which combines information from a wide variety of indicators relevant to the ecological well-being dimension in the South African sardine fishery. The modelling philosophy applied a rapid prototyping approach, and a broad group of stakeholders participated in indicator selection, tool design, and interpretation. This interaction confirmed that the approach is transparent, repeatable and scientifically defensible, and hence suitable to meet management requirements. Encouraging stakeholder interaction offers opportunities for social learning, which if carefully facilitated through the tool development process enhances the outcomes of this process, and more generally bridges current boundaries to the implementation of this modern approach to fisheries management. The joint focus on tool development and social processes supports effective implementation of this approach in the South African small pelagic fishery and provides a model for other fisheries.

Supervisor: Associate Professor A Jarre (Biological Sciences)
Co-supervisors: Dr CD van der Lingen (Agriculture, Forestry and Fisheries); Professor A Wals (Wageningen University, Netherlands)

Katherine Eleanor Watermeyer
Thesis Title: *Ecosystem implications of the recent southward shift of key components in the southern Benguela.*

Katherine Watermeyer obtained her BSc, BSc(Hons) and MSc from UCT, during which she became interested in ecosystem functioning and modelling.

Katherine Watermeyer's research aims to improve our understanding of implications of changes in distribution of key species in the southern Benguela upwelling ecosystem for ecosystem structure and functioning, particularly the increased relative abundance of small pelagic fish east of Cape Agulhas since the mid-1990s. Investigation into differences in structure and functioning of the west and south coast sub-systems, spatial indicators generated from species distribution maps, and analysis of sea surface temperature data using the sequential t-test algorithm for detecting regime shifts, informed the design and construction of a frame-based model of sardine and anchovy distribution and abundance. The results document similar, though smaller changes in other species, as well as a previously unidentified shift in SST on the western Agulhas Bank. In the context of the management of the fishery for small pelagics, a frame-based modelling approach provides a useful alternative to spatial modelling, when attempting to better understand the relative impact of climate and fishing on ecosystem dynamics.

Supervisor: Professor A Jarre (Biological Sciences & Marine Research Institute)

Co-supervisors: Dr LJ Shannon; Professor L Hutchings (Biological Sciences)

In Botany:

*Pravin Mark Maistry
Thesis Title: *Aspalathus and Podalyria legumes balance acquisition of phosphorus and nitrogen for growth in nutrient poor fynbos soils*

Pravin Maistry has a BSc from Waikato University (New Zealand) and an MSc from the University of Cape Town.

Pravin Maistry's thesis aims to report on the physiological mechanisms enabling tolerance of low availability of phosphorus (P) in Cape legume species, such as *Aspalathus linearis* and *Podalyria calytrata*; species that demonstrated traits typical of plants from nutrient poor soils. Pravin Maistry shows that the Cape legumes, although responsive to increased P supply, contingent upon greater nitrogen supply, have adaptive traits for tolerance of low availability of P. Plant responses were consistent with the theory that plants allocate resources for nutrient acquisition in response to demand, to maximise biomass accumulation and plant fitness. The presence of distinct traits for P acquisition, between closely related but geographically separate species, indicates a crucial role for the mechanisms of P acquisition in the distribution and survival of plants in the fynbos.

Supervisor: Dr SBM Chimphango (Biological Sciences)

Co-supervisors: A/Professor AM Muasya (Biological Sciences); Prof AJ Valentine (Botany and Zoology, Stellenbosch)

In Chemistry:

Fatin Elmagbari
Thesis Title: *Synthesis and design of ligand copper complexes as anti-inflammatory drugs.*

Fatin Elmagbari obtained her BSc and MSc degrees from Garyounis University in Libya. She then joined the academic staff of Garyounis University, Department of Chemistry, from 2008-2010, before reading for a PhD degree at UCT in 2011.

The aim of Fatin Elmagbari's thesis was to design, synthesis and evaluate new drugs which are able to promote the dermal absorption of copper and/or mobilize endogenous copper reserves. The rationale for this is the observation that copper has anti-inflammatory activity and that dermal absorption is the preferred route of administration. Several new drugs were synthesised and their metal complex equilibria measured. These results were used in a model of blood plasma so that the in vivo metal-ion speciation could be calculated. Two of the drugs were found to affect the zinc speciation and so were not pursued further. Solid state and solution state spectroscopy was used to study the structure of the different metal complexes formed. The water/octanol partition coefficients were measured and related to the diffusion rate of the complexes through an artificial membrane. The presence of a pyridyl moieties in the ligand systems, enhanced the lipophilicity of their Cu(II) complexes as did N-methyl substituent of the terminal amine. Previous studies on dermal absorption have shown a link between lipophilicity and absorption rate. For metal complexes, however, the same relationship was not found. This study highlighted the need for thorough chemical evaluation of new drugs before biological testing.

Supervisor: Professor G Jackson (Chemistry)

Ahmed Hammouda
Thesis Title: *Development of copper peptide complexes as anti-inflammatory drugs.*

After graduating with an MSc from Garyounis University in 2006, Ahmed Hammouda was appointed as lecturer in the Department of Chemistry at Omar Al-Mukhtar University in Libya. He joined the Chemistry Department at UCT in 2011 to read for a PhD in biophysical chemistry.

The aim of Ahmed Hammouda's thesis was to develop new drugs that will alleviate the inflammation associated with rheumatoid arthritis. This was based on the observation that copper-ions have anti-inflammatory activity. The copper-ions can be administered orally, dermally or by injection. Of these three methods dermal absorption is preferred, as it is less painful and hence tolerable to the patient. For this reason the drugs were designed for dermally absorption. They also needed to be selective for copper, so that they did not affect the speciation of other metal ions in blood plasma. The design of the final ligands was based on the copper transport protein, serum albumin. Tripeptides were used where the N-termini were methylated. The metal ion equilibrium constants were measured using glass electrode potentiometry and the structure of the complexes examined spectroscopically. The most important finding of his study was that the metal ion complexation strongly depends on the position of histidine in the amino acid sequence of the tripeptide molecules. The terminal methyl group also had an inductive effect, making these tripeptides more basic and stronger complexers of copper. Lipophilicity measurements and trans-membrane diffusion rates showed that these peptides are able to promote the dermal absorption of copper. The present study has contributed to an understanding of some aspects and problems

involved in the development of copper complexing agents for the alleviation of inflammation associated with rheumatoid arthritis.

Supervisor: Professor G Jackson (Chemistry)

In Computer Science:

Chika Ogochukwu Yinka-Banjo
Thesis Title: *Development of cooperative behavioural model for autonomous multi-robots system (MRS) deployed to underground mines.*

Chika Yinka-Banjo has a BTech in Mathematics and Computer Science from Federal University of Technology Owerri, an MSc in Computer Science from University of Port Harcourt, and a Post Graduate Diploma in Mathematical Sciences from University of Stellenbosch via African Institute for Mathematical Sciences, Muizenberg, South Africa. She is a lecturer in the department of Computer Sciences, University of Lagos.

Chika Yinka-Banjo's thesis is on AI and Robotics and it aims to develop an intelligent cooperative behavioral model for multi-robots known as QLACS. QLACS is a hybrid solution and it stands for Q-Learning Ant Colony Systems. The model guides multi-robots in a quick, exhaustive and efficient pre-safety inspection of underground mines before miners go in for operations. Chika Yinka-Banjo achieves this by using two artificial intelligence techniques: Qlearning and Ant Colony Optimization. The notion here is that multi-robots should cooperate while they navigate in the confined environment to expedite the inspection task and mitigate the risk involved in using humans to perform these and similar tasks. The QLACS model achieved effective time for multi-robot system navigation and inspection with optimized routes. The capability and efficiency of the model illustrated through simulations has

been proven in this thesis. The result of this work will be used for future simulation and deployment of multi-robot systems applications in hazardous environments.

Supervisor: Dr A Bagula (Computer Science)

Co-supervisor: Professor IO Osunmakinde (School of Computing, UNISA)

In Environmental & Geographical Science:

Hannah Francis Baleta
Thesis Title: *The concept of shared risk in public and private sector water security: a case study of Grabouw, Western Cape, South Africa*

Hannah Baleta holds a BSc from UCT, and an MSc in Water Science, Policy and Management from the University of Oxford. Her interest in water risk emerges from her consulting work in agro-processing industries in South Africa.

Hannah Baleta's thesis investigates different forms of knowledge and information held within small to medium-sized agro-processing companies and the public sector on water security risks. The research identifies the extent to which risk affects the consumption and use of water in a sub-catchment, and how a realisation thereof has the potential to contribute towards the development of the co-management of water resources to transform private and public sector practice. The research advances the theory and understanding of the emerging concept of 'shared risk'. By using a combination of adaptive theory and empirical data, the study formulates a conceptual map of private and public sector water security risks in a case study. She concludes that an adaptive and multi-levelled approach to water resources management is preferable to a 'business-as-usual' case, particularly if this approach enables stakeholders to anticipate and adapt to changing water security risks.

Supervisor: Dr K Winter
(Environmental & Geographical
Science)

Co-supervisor: Dr G Pegram
(Pegasys: Strategy Consulting)

In Molecular & Cell Biology:

*Sarah Maureen Curtis

Thesis Title: *Enhanced
phylogenetic analysis and targeted
search for the genus Kribbella*

Sarah Curtis obtained BSc and BSc (Honours) degrees, majoring in Microbiology, from the University of Guelph, Canada. Her work experience and interest in soil bacteria led her to the Department of Molecular & Cell Biology at UCT.

In her thesis, Sarah Curtis developed tools to search for and isolate the actinobacterial genus *Kribbella* and improve upon its phylogenetic analysis. She was the first to develop a nutrient medium to favour the isolation of *Kribbella* strains from environmental samples and screened local fynbos plants and soil for the presence of *Kribbella* strains using both culture-dependent and -independent methods. From this work, she established that the genus *Kribbella* is found in a variety of indigenous plants, residing harmlessly in leaf and root tissue. In addition, she developed a multilocus sequence analysis method to improve the phylogenetic analysis of the genus. She showed that the genes *gyrB*, *rpoB*, *recA*, *relA* and *atpD* can be used to determine more accurately the phylogenetic position of strains within the genus and, in so doing, has made a significant contribution to improving *Kribbella* taxonomy. Furthermore, she expanded on a gene sequence-based method to determine whether a newly-isolated *Kribbella* strain is likely to represent a new species in the genus.

Supervisor: Dr P Meyers
(Molecular & Cell Biology)

Yashini Govender

Thesis Title: *Role of the
glucocorticoid receptor and
HIV-1 Vpr in inflammatory
gene expression and HIV-1 LTR
transcription in response to
dexamethasone and progestogens*

Yashini Govender has BSc and BSc honours degrees from the University of Cape Town. She upgraded from an MSc degree to a PhD and is a recipient of a Carnegie Bursary for Infectious Disease.

Yashini Govender's thesis aims to determine the effects of the widely used injectable progestin-only contraceptives Depo-Provera® and Noristerat® on immune function, in particular inflammatory gene regulation in the lower female genital tract (FGT). Her thesis also aims to determine the effects of these progestin contraceptives on HIV-1 transcriptional regulation. A series of experiments were performed, using molecular biology tools, in human cervical cells as a model for the lower FGT. The end result has implications for choice of progestin used in contraceptives and women's health. They suggest Depo-Provera®, unlike Noristerat®, may compromise immune function in the lower FGT, the site of heterosexual transmission of HIV-1, via the glucocorticoid receptor. The results suggest a mechanism whereby the synthetic progestin in Depo-Provera®, unlike for Noristerat®, may increase susceptibility to sexually transmitted infections, including HIV-1. The results also suggest consequences for HIV-1 replication and disease progression. Depending on the stage of HIV-1 disease, the injectable contraceptives may either have anti-viral effects, or possibly aid viral latency and thereby HIV-1 pathogenesis.

Supervisor: Professor JP Hapgood
(Molecular & Cell Biology)

Co-supervisor: Dr C Avenant
(Molecular & Cell Biology)

Delroy Tapiwa Guzha

Thesis Title: *Investigating the
biological roles of the HSPRO
genes in Arabidopsis thaliana.*

Delroy Guzha holds a BSc with majors in Biochemistry and Microbiology, and a first class Honours degree in Molecular & Cell Biology, both from UCT.

Delroy Guzha's thesis aims to identify the biological roles played by the HSPRO1 and HSPRO2 proteins in the model plant *Arabidopsis thaliana*. Using a combination of bioinformatics and reverse genetic approaches, he demonstrates antagonistic roles for these two proteins in the plant response to abiotic stresses (including salt and osmotic stress) and biotic stress (susceptibility to attack by bacterial plant pathogens). Furthermore, gene expression profiling by microarray analysis of the *hspro1* and *hspro2* mutant plants, and a double *hspro1 hspro2* mutant, suggests an additional role for these two proteins in the regulation of gene expression in response to cellular energy status. Strikingly a subset of the genes known to be regulated via the sugar sensor sucrose non-fermenting related kinase 1 show altered expression in the *hspro1* and *hspro2* mutants. In line with his predictions of a role for these proteins in sugar signalling, *hspro2* mutants display aberrant germination and gene expression in response to exogenous glucose.

Supervisor: Dr RA Ingle
(Molecular & Cell Biology)

Guy Louis Regnard
Thesis Title: *Development of a challenge model and plant-produced vaccine for beak and feather disease virus*

Guy Regnard has a BSc (Hons) from the University of Cape Town. His PhD thesis was an opportunity to continue studying molecular virology.

Guy Regnard's thesis aims to establish a platform for the testing of a plant-produced vaccine against beak and feather disease virus (BFDV), the causative agent of psittacine beak and feather disease (PBFD), and to understand the phylogenetic diversity of viruses currently circulating in indigenous wild Cape parrots (*Poicephalus robustus*). PBFD is the most prevalent disease affecting parrots, and is exacerbated by the absence of a suitable treatment or vaccine. Guy Regnard has developed a vaccine produced in tobacco plants (*Nicotiana benthamiana*) against BFDV, together with a unique challenge model based on an infectious DNA molecular clone. The vaccine comprises plant-produced virus-like particles that are essential for eliciting a strong immune response, while the challenge model was established in tissue culture as a proof-of-concept. The challenge material, together with the vaccine, are ready for vaccine trials. In addition, Guy Regnard has investigated a recent outbreak of BFDV in wild Cape parrots and has developed a diagnostic to monitor disease severity and characterise the phylogenetic diversity of the virus. This research has opened up a number of very interesting opportunities for further investigation.

Supervisor: Dr I I Hitzeroh
(Molecular and Cell Biology)

Co-supervisor: Professor E P Rybicki (Molecular and Cell Biology)

In Physics:

*Thirunavukkarasu Pathmathas
Thesis Title: *Granular flow modelling of rotating drum flows using positron emission particle tracking*

Thirunavukkarasu Pathmathas has a BSc from University of Jaffna, Sri-Lanka, Diploma in High Energy Physics from ICTP, Italy and MSc from the University of Peradeniya, Sri-Lanka. His PhD thesis emerged as a result of his research outcome in the Department of Physics at UCT, where he has been a student since March-2011.

This thesis estimates the average power dissipation distribution for dense granular flows in experimental tumbling mills operated in the cascading-to-cataracting Froude regime. By combining the inherent frictional nature of particles within a dense flow regime and noting that tumbling mills are typically characterised by collisional and turbulent stresses, the power dissipation distribution for athermal boundary conditions was derived. The input data to the model (velocity, solids concentration, pressure and flow depth) are obtained non-invasively from Positron Emission Particle tracking (PEPT) measurements. The power dissipation due to shear stresses is shown to be the dominant mode of dissipation in the tumbling mill with up to an order of magnitude difference between pressure induced dissipation and shear.

Supervisor: Dr Indresan Govender
(Physics)

In Zoology:

Owen Rhys Davies
Thesis Title: *Taxonomy, phylogenetics and biogeography of cisticolas (Cisticola spp.)*

Owen Rhys Davies has BSc and BSc honours degrees from UCT. His PhD thesis emerged as a result of his research experiences at the Percy FitzPatrick Institute (UCT registered since 2008), British Museum of Natural History and the Swedish Museum of Natural History.

Davies' thesis aims to determine the number of species (taxonomy), their evolutionary genealogical (phylogenetic) and spatial patterns of distribution and diversity (biogeography) from morpho-behavioral and molecular perspectives. The end results confirm and extend pioneering research conducted during the 1930s and should result in a series of publications and a synthesis thereof.

Supervisor: Professor TM Crowe
(Biological Sciences)

Matthew Charles Lewis
Thesis Title: *Behavioural and isotope ecology of marine-foraging chacma baboons (Papio ursinus) on the Cape Peninsula, South Africa*

Matthew Lewis has a BSc (Botany and Zoology) and a BSc Hons (Zoology) from the University of Cape Town. Matthew upgraded his Master's dissertation to a PhD in his quest to determine how, when and why Cape Peninsula baboons exploit marine foods in the intertidal zone.

Using a combination of behavioural observations, spatial data and isotope analyses of both hair and faecal samples, Matthew Lewis demonstrated that the macronutrient-rich marine foods on the Cape Peninsula are only rarely available to, and hence exploited by, baboons. Season, time of day, tide height, swell size, wind direction and wind speed all affected the probability and intensity of marine foraging. Baboons were more likely to access marine foods when calm conditions coincided with low tides, but the temporal and spatial unpredictability of such conditions limited marine foraging bouts to < 3% of all foraging time across seasons. Consequently the study troop, which is the last natural-foraging troop on the Peninsula, appears to be nutrient-stressed, as they occupy a larger home range, travel greater distances on a daily basis and spend more time searching for and processing foods, than all other Peninsula troops and most other troops studied in southern Africa.

Supervisor: Professor MJ O'Riain (Biological Sciences)
Co-supervisor: Dr AG West (Biological Sciences)

Bernardino Sérgio Malauene
Thesis Title: *Environmental influences on banana shrimps of the Sofala Bank, Mozambique Channel*

Bernardino Malauene obtained a BSc degree from the University of Eduardo Mondlane, Mozambique, before completing an MSc at the University of Cape Town. His PhD thesis developed from an interest in oceanography, computer modelling and a desire to link marine environmental variability to impacts on fisheries.

Bernardino Malauene's PhD investigates environmental influences on populations of two commercially-important species of banana shrimp off Mozambique. Recently, catches of these species have decreased, possibly because of environmental changes. Bernardino Malauene used biophysical computer models to test the likelihood of mesoscale eddies, river plumes and tides influencing near-shore settlement of banana shrimp larvae. Scientific and fishery data were used to identify spawning seasons and locations. Particle-tracking models indicate that shrimp larvae are lost offshore regularly by entrainment in mesoscale eddies, but this would not cause a continuous decrease in the catches. Eddies can promote coastal settlement through onshore transport of larvae. Tides and larval behaviour did not influence settlement, but simulated larvae were sensitive to cool temperatures and river plumes. Based on the results of the thesis, a conceptual model was developed of the Sofala Bank circulation and early life history dynamics of the banana shrimps.

Supervisor: A/Professor CL Moloney (Biological Sciences)
Co-supervisors: Dr MJ Roberts (Oceans and Coasts, Environmental Affairs),
Dr F Marsac (Institut de Recherche pour le Développement (IRD), Dr P Penven (IRD, Plouzane – France)
Dr C Lett (IRD, Sète Cedex – France)

Lizelle Janine Odendaal
Thesis Title: *Sensory divergence among populations of a southern African endemic horseshoe bat (Chiroptera: Rhinolophidae): a multidisciplinary approach*

Lizelle Odendaal has BSc, BSc(Hons), and MSc degrees from UCT. Her PhD research emerged as a result of her interests in the evolution of mammals and in particular the evolutionary processes leading to trait variation within species.

Lizelle Odendaal's thesis investigates how several evolutionary processes interact to generate patterns of trait variation, and in particular sensory trait variation, among populations of the same species. Although it is well established that both neutral and adaptive processes influence trait variation, the relative contributions of these processes, as well as the complex interactions between them, remain largely unknown. She used a combination of population and functional genetics, geometric morphometrics and ecology to investigate variation in the echolocation calls of the endemic Cape horseshoe bat, a species that shows remarkable geographic variation in its echolocation system. Her results challenge traditional views of the causes and consequences of echolocation divergence in horseshoe bats, and thus provide novel insights into the evolution of this remarkable sensory system.

Supervisor: A/Professor DS Jacobs (Biological Sciences)
Co-supervisor: Dr JM Bishop (Biological Sciences)

ACADEMIC DRESS

OFFICERS OF THE UNIVERSITY

CHANCELLOR

The Chancellor wears a gown made from dark blue silk. The front of the gown has facings down each side made of dark blue velvet embroidered with a gold floral design. The gown and sleeves are lined with pale blue silk and the sleeves are looped up in front with a gold cord and button. The yoke of the gown is edged with gold cord. The gown is worn with a square blue velvet hat with a soft crown and gold tassel.

VICE-CHANCELLOR

The Vice-Chancellor wears a gown made from bright blue silk. The front of the gown has facings down each side and sleeve-linings of pale blue silk. The sleeves are looped up in front with a gold cord and button and the yoke of the gown is edged with gold cord. The gown is worn with a black velvet bonnet with a silver cord.

DEPUTY VICE-CHANCELLOR

A Deputy Vice-Chancellor wears a gown made from dark blue silk. The gown has closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings of light blue down each side. The sleeves are lined with light blue and the yoke of the gown is edged with silver cord. The gown is worn with a black velvet bonnet with a silver cord.

CHAIR OF COUNCIL

The Chair of Council wears a gown, of the same pattern as that worn by the Vice-Chancellor, made from light blue silk. The front of the gown has facings down each side and a yoke of dark blue. The sleeves are lined with dark blue and the facings and yoke are trimmed with gold cord. The sleeves are looped up in front with a gold cord and button. The gown is worn with a black velvet bonnet with a gold tassel.

MEMBERS OF COUNCIL

Members of Council wear graduate-pattern gowns made from black silk. The front of the gown has 10cm wide, light blue facings down each side trimmed with dark blue cord. The gown is worn with a black velvet bonnet with a blue cord.

REGISTRAR

The Registrar wears a gown made from black silk. The front of the gown has 10cm wide facings of blue silk down each side. The gown is worn with a black velvet bonnet with a white cord.

PRESIDENT OF CONVOCATION

The President of Convocation wears a gown made from black silk and has long closed sleeves with an inverted T-shaped opening at the level of the elbow to free the arms. The front of the gown has facings down each side and sleeves of blue silk. The gown is worn with a black velvet bonnet with a blue tassel.

ACADEMIC DRESS (continued)

GOWNS

A plain black gown styled after the pattern of the Oxford scholar's gown is worn by diplomats, and Bachelor's, Honours and Master's graduands. Senior doctoral graduands wear a scarlet gown, with facings the colour distinctive of the faculty in which the degree is awarded. PhD graduands wear a scarlet gown without facings.

HOODS

The hood is particular to the qualification and the faculty. Diplomates and Bachelor's graduands wear a black hood lined with white and edged with the colour distinctive of the faculty. Master's graduands wear a black hood lined with the colour distinctive of the faculty and edged with white, except in the case of the hood for the MMed degree, which is edged with red. Senior doctoral graduands wear a hood of the colour distinctive of the faculty and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degrees is awarded. PhD graduands wear a hood of scarlet lined with black and a black velvet bonnet with a cord of the colour distinctive of the faculty in which the degree is awarded.

DISTINCTIVE COLOURS

Faculty of Commerce	Yellow
Faculty of Engineering and the Built Environment	Green
Faculty of Health Sciences	Red
Faculty of Law	Old gold
Faculty of Humanities	Blue
Faculty of Science	Purple

HISTORICAL SKETCH

Founded as the South African College (a boys' school that aimed to provide higher education as well) in 1829, the University was established as the University of Cape Town in 1918.

The early history was one of great expectations and hard times and it was not until the early years of the twentieth century that the University was developed into a fully-fledged tertiary institution. A significant and pioneering development in the 19th century was the admission of women as degree students in 1886, many years ahead of most universities in the world.

At the start of the 20th century the University incorporated the Diocesan College, the teacher training classes of the Normal College, the South African College of Music and the Cape Town Schools of Fine Art and Architecture.

The Medical School was established and in the 1920s the University began a partnership with the local health authority (now the Provincial Government's health department) that saw the Medical School move from the Hiddingh Campus and the Green Point Somerset Hospital to Observatory (the rest of UCT's Upper Campus moved from Hiddingh to its present site, on part of Cecil Rhodes' estate, in 1928). This partnership allowed for the construction of the first Groote Schuur Hospital on a University site. The partnership continues to this day and now involves not only Groote Schuur as a teaching hospital but Red Cross Children's Hospital, Valkenberg and a growing number of primary health care sites.

The period between the end of World War II and 1994 was marked by two themes. Firstly, the University recognised that if it was to be fully South African, it would have to move beyond academic non-segregation to be fully inclusive. It would have to face the consequential and increasing clashes with a government determined to legislate for segregation and enforce the doctrine of apartheid. And secondly, the University intended to transform into a leading research institution.

Before World War II, the University was largely a teaching university and its students were mostly undergraduates. The research undertaken was sporadic, though in some cases notable. A research committee was appointed for the first time in 1945. The next 75 years saw a great expansion of research and scholarly work such that the UCT of 2014 has a greater proportion of highly rated researchers and gains significantly more research grants and awards than any other South African University.

The 1980s and 1990s were characterized by the deliberate and planned transformation of the student body. This was aided by the establishment of the Academic Development Programme aimed at helping students from disadvantaged educational and social backgrounds to succeed and the desegregation of student residences. As a result, a student body that was 90% white in 1979, when UCT marked its 150th anniversary, is in 2014 more than 50% black. The total student enrolment of just above 26 000, includes international students drawn from over 100 countries, a significant proportion of which are from SADC states. Particular emphasis is placed on postgraduate studies and more than 20% of these students will be enrolled in master's and doctoral programmes. A growing number of postdoctoral fellows contribute substantially to the research endeavours and reputation of the University (UCT has more than a third of the total number of post docs in South Africa).

UCT continues to work towards its goal to be Africa's leading research university. Its success can be measured by the scope of study it offers and the calibre of its graduates.

MISSION STATEMENT OF THE UNIVERSITY OF CAPE TOWN

UCT aspires to become a premier academic meeting point between South Africa, the rest of Africa and the world. Taking advantage of expanding global networks and our distinct vantage point in Africa, we are committed, through innovative research and scholarship, to grapple with the key issues of our natural and social worlds. We aim to produce graduates whose qualifications are internationally recognised and locally applicable, underpinned by values of engaged citizenship and social justice. UCT will promote diversity and transformation within our institution and beyond, including growing the next generation of academics.

Foundation statement underpinning the mission statement

Our research-led identity is shaped by a commitment to:

- academic freedom as the prerequisite to fostering intellectual debate and free inquiry;
- ensuring that research informs all our activities including teaching, learning and service to the community;
- advancing and disseminating knowledge that addresses the key challenges facing society – South African, continental and global;
- protecting “curiosity driven” research;
- nurturing and valuing creativity in the sciences and arts including the performing and creative arts;
- stimulating international linkages of researchers and research groupings.

We strive to provide a superior quality educational experience for undergraduate and postgraduate students through:

- providing an intellectually and socially stimulating environment;
- inspired and dedicated teaching and learning;
- exposure to the excitement of creating new knowledge;
- stimulating the love of life-long learning;
- the cultivation of competencies for global citizenship;
- supporting programmes that stimulate the social consciousness of students;
- offering access to courses outside the conventional curricula;
- attracting a culturally and internationally diverse community of scholars;
- guaranteeing internationally competitive qualifications;
- offering a rich array of social, cultural, sporting and leadership opportunities;
- providing an enabling physical and operational environment.

In advancing UCT as an Afropolitan university, we will:

- expand our expertise on Africa and offer it to the world;
- extend our networks on the continent, along with our global connections and partnerships;
- promote student and staff exchanges and collaborative research and postgraduate programmes;
- engage critically with Africa’s intellectuals and world views in teaching and research;
- contribute to strengthening higher education on our continent.

We strive to provide an environment for our diverse student and staff community that:

- promotes a more equitable and non-racial society;
- supports redress in regard to past injustices;
- is affirming and inclusive of all staff and students and promotes diversity in demographics, skills and backgrounds;
- offers individual development opportunities to all staff;
- is welcoming as a meeting space for scholars from Africa and around the world.

THE UNIVERSITY OF CAPE TOWN DONOR ROLL

The University of Cape Town gratefully acknowledges the sustained contributions of the following partners. Their generosity has assisted us toward our goals of improving student access to tertiary education and promoting curriculum, staff and student transformation; increasing our research capacity; and implementing programmes that promote social engagement and community upliftment.

FOUNDATIONS, CORPORATES AND TRUSTS

Platinum Circle

Organisations that have made gifts to UCT of R50 million and above

Carnegie Corporation of New York
Hasso Plattner Foerderstiftung, gGmbH
The Andrew W Mellon Foundation

Gold Circle

Organisations that have made gifts to UCT, between R25 million and R50 million

Claude Leon Foundation
The Atlantic Philanthropies (Bermuda) Ltd
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The Michael and Susan Dell Foundation
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Silver Circle

Organisations that have made gifts to UCT, between R10 million and R25 million

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Organisations that have made gifts to UCT, between R1 million and R10 million

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Director of the Graduate School of Business

Walter Remi Juliaan Baets, BSc MSc *Antwerp* PhD *Warwick*

Registrar

Hugh Theodore Amooore, BA *Cape Town*

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!
