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 par cetur, nemini par cetur.

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
Maluphakanyiswa’ uphondo lwayo,
Yizwa imithandazo yethu,
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba 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 gebregtes,
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.
The University of Cape Town gratefully acknowledges the sustained contributions of the following partners. Their support has made possible curriculum, staff and student transformation, improved student access to tertiary education, programmes that promote social engagement and community upliftment, as well as increased research capacity.

Abe Bailey Trust
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Dalib Investments (Pty) Ltd
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Derek Raphael Bursary
Dermatological Society of South Africa
Die Rupert-Musiekstigting
Dieter Bock Bursary Programme
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Estate Late Edward Carter
Estate Late George Strates
Estate Late Hajee Sulaiman ShahMahomed
Estate Late Leah Levy
Estate Late Pauline de la Motte Hall
Estate Late Peter Christopher Theron
Estate Late RM Moss
Estate Late Sarah Turoff
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Foschini Retail Group (Pty) Ltd
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Dr Ernest Fullagar
Garden Cities Inc
GeoForschungsZentrum Potsdam
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Goldman Sachs Foundation
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Mr John Grieves
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Italian Institute of Culture
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Kate Jagoe-Davies Memorial Bursary Fund
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Mr Rob Knutzen
Leah Gamsa Sixpence Award/Gamsa & Alexander Family
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Lily & Ernst Hausmann Research Trust
Lorenzo and Stella Chiappini Charitable and Cultural Trust
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Marilyn and Tim Noakes Scholarship
Mary Slack & Daughters Foundation
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Medtronic Foundation
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Minnie Goldman Trust
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Momentum Group Ltd
National Arts Council of South Africa
National Bioproducts Institute
Thank you for helping UCT to pursue its vision of being a world class, research-led African university.
GRADUATION CEREMONIES
JUNE 2011

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Faculty of Commerce – The Graduate School of Business
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 Statement of Dedication will be read by a representative of the SRC.

Musical Item.

Welcome by the Deputy Vice-Chancellor, Professor T Nhlapo.

The University Book Award.

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 Nhlapo 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 UNIVERSITY BOOK AWARD

The University Book Award recognises books that make a scholarly contribution in any branch of learning.

Previous recipients of the award have been:

1984: JM Coetzee (Arts)   Waiting for the Barbarians
1985: GM Branch (Science)  The Living Shores of South Africa
1986: LH Opie (Medicine)  The Heart: Physiology, Metabolism, Pharmacology and Therapy
1990: JM Coetzee (Arts)   Age of Iron
KM Coleman (Arts)  Book IV of the Silvae of Statius
1991: R Mendelsohn (Arts)   Sammy Marks, ‘The uncrowned King of the Transvaal’
1992: J Parkington (Arts)   Sound from the Thinking Strings
N Penn (Arts)  P Skotnes (Fine Arts & Architecture)
S Watson (Arts)
1993: D Chidester (Social Science & Humanities)  Shots in the Street
1993: W Nasson (Arts)   Ebram Esau’s War
CL Griffiths (Science)
L Beckley
ML Branch
1995: –
1996: DC Coplan (Social Science & Humanities)
PAL Harris (Arts)  Ebram Esau’s War
M Shain (Arts)   The roots of anti-Semitism in South Africa
T Rajna (Music)   Harp Concerto
1997: B Warner (Science)  Cataclysmic Variable Stars
1998: MS Blackman (Law)  Companies: (In the Law of South Africa, first reissue Volume 4, parts 1, 2 and 3)
JV Bickford-Smith (Arts)  Ethic Pride and Racial Prejudice in Victorian Cape Town: Group Identity and Social Practice, 1875 – 1902
1999: Professor M Mamdani (Humanities)  Citizen and Subject: Contemporary Africa and the Legacy of Colonialism
2000: J Higgins (Humanities)  Raymond Williams. Literature, Marxism and Cultural Materialism.
2001: NG Penn (Humanities)  Rogues, Rebels and Runaways
2002: JI Glazewski (Law)   Environmental Law in South Africa
2003: TD Noakes (Sports Science Institute of South Africa)  Lore of Running
2004: MS Blackman (Law)  Commentary on the Companies Act (Volumes 1 to 3)
RD Jooste
GK Everingham
2005: N Nattrass (Commerce)  The Moral Economy of AIDS in South Africa

Continued on page 8
Continued from page 7

THE BOOK AWARD FOR 2011 IS TO BE AWARDED TO:

JC (Kay) de Villiers, Helen & Morris Mauerberger  Emeritus Professor of Neurosurgery

Healers, Helpers and Hospitals  A History of Military Medicine in the Anglo-Boer War (Volumes I and II)

Kay de Villiers is recognised as the father of academic neurosurgery in South Africa, but is as well known as a scholar in the related fields of the history of medicine and the medical aspects of the Anglo-Boer War (1899-1902). These two interests merged in his fascination with the medical history of this conflict, a subject that has occupied his attention since 1965.

The Anglo-Boer War features strongly in the annals of military history as there were many unique aspects of this conflict. But one feature it has in common with most major wars is that far more died from disease than from wounds. This war took place during a critical period in the evolution of modern medicine, with the new techniques of radiology and anaesthesia having to be adapted to wartime conditions and with new surgical specialties emerging to meet clinical needs.

Volume I recounts the history of the practitioners (doctors, nurses and support staff) and organizations (hospitals, Red Cross, Ambulance services etc) of both combatant camps, as well as describing in detail many aspects of the war itself (for example, the beginnings of guerrilla warfare). Volume II deals with the various clinical issues, including the management of wounds due to bullets and shells and the then novel high-velocity missiles, typhoid and plague, the often overlooked psychiatric disorders (a forerunner of the horrors of WW I) as well as innovations, ranging from the conventional (anaesthesia and radiology) to the colourful (folk remedies and maggots).

This work serves not only to document these important facts, but also to pay tribute to those who “attempted to honour the tenets of the healing professions”; often very far from home and under quite ghastly circumstances.

This is a meticulously researched (and, therefore, highly detailed) opus magnum, but the abundance of entertaining and engaging observations and anecdotes makes for a rewarding read. Although this war took place more than a century ago, its impact on our country was enormous and is felt to this day. This book, the definitive account of the medical aspects of this war, will serve scholars and interested citizens in perpetuity and is the culmination of a lifetime of scholarship at the University of Cape Town.
DECLARATION FOR HEALTH SCIENCES GRADUANDS

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

I solemnly pledge to serve humanity

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

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

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

I will engage patients and colleagues as partners in healthcare

I will practise my profession with conscience and dignity

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

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

I commit myself to lifelong learning

I make these promises solemnly, freely and upon my honour.
## NAMES OF GRADUANDS/ DIPLOMATES

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

### 1. FACULTY OF COMMERCE

**Dean: Professor D Ross**

**POSTGRADUATE DIPLOMA IN ACCOUNTING**

- *Matthew Bradley Atkinson
- *Warwick Godfried Bam
- *Kate Emily Bosman
- Ka Wang Chan
- Kesha Lahna-Dee Coetzee
- *David Daniel
- Catherine Dobson
- *Craig Grant Edmond
- Imraan Faki
- Sameera Firifiray
- Candice Deborah Forbes
- *David John Gallimore
- Madigah Hendricks
- *Paul Bradford Hoffman
- Meng Hu
- Neil Cameron Jepson
- *Meryl Inez Jonker
- Lehlohonolo Kotjane
- Yonela Anita Langa
- *Mmathebe Lobega
- *Melikhaya Mahonga
- *Zanele Malumba
- Senzenokosi Sakhile Bongumenzi Manzini
- Mokgadi Antonette Masekela
- *Mary Chifundo Mattaka
- *Grant Scott McEwan
- *Gaolatlethe Monyamane
- *Jaryd Moore
- *Edzani Elspeth Muedi
- Dhiren Naidoo
- *Koshantini Naidoo
- *Nicholas Robert Ord
- Wendy Bo Peng
- *Mohammad Zaid Sadien
- Tanya Samantha Schollz
- *Scott David Schroenn
- Serika Singh
- Thandiwile Prudence Sobhuza
- Nicola Diane Upson
- *Peter van Doesburgh
- *Nicholas Ian Watchorn
- *Danielle Nicole Gleaves Watling
- Kyle Jody Williams
- Robert Anthony Marius Wyatt

**POSTGRADUATE DIPLOMA IN HUMAN RESOURCE MANAGEMENT**

- *Debra Chimuko

**POSTGRADUATE DIPLOMA IN MANAGEMENT**

**In Accounting Conversion:**

- *David Lusalu Muwonge

**In Actuarial Science Conversion:**

- *Benjamin James Lindow

**In Entrepreneurship:**

- Oluwatoyin Ireti Akinyemi
- Leila Maria Arnold
- Michelle Linda Clark
- *Maryann Condy
- Michael James Gazet du Chattelier
- *Kevin Godfrey Hereford Hoole
- *Wesley James Potts
- *David Anthony Schilperoort
- *Caitlin Anne Megan Woolcott

**In Financial Accounting:**

- *Luvuyo Qhama Lelethu Tsamane

**In Information Systems:**

- *Moegamat Zain Richards

**In Marketing:**

- Craig Beattie
- *Shungu Lisa Naledi Thema

**In Organisation and Management:**

- *Dinko Paseka Samuel Modisapudi
- *Ndileka Primrose Twalo

**In Sports Management:**

- *Sharon Debra Marle

**In Tourism:**

- *Refiloe Lucy Okello

### 2. FACULTY OF HEALTH SCIENCES

**Dean: Professor M E Jacobs**

**POSTGRADUATE DIPLOMA IN COMMUNITY EYE HEALTH**

- *Agnes Mudabeti
- Eratus Salomon

**POSTGRADUATE DIPLOMA IN HEALTHCARE TECHNOLOGY MANAGEMENT**

- Thamsanqa Cyril Mhlongo
- Susan Mtshali
- Pumlani Tom

**POSTGRADUATE DIPLOMA IN HEALTH ECONOMICS**

- *Ramanku Cohen Tjale

**POSTGRADUATE DIPLOMA IN HEALTH MANAGEMENT**

- *Cornelia Magrieta Jacoba Blom
- *Virginia Alzira Fernandes de Azevedo
- Sibongile Dorothy Dube
- Anneline Janse van Rensburg
- Cornelius Philemon Lebeloe
- Ursula Marice le Roux
- Nkhensani Sweetness Mayimele
- Tshimlana Lynn Moeng Mahlangu
- Mpho Dorothy Mohale
- Elizabeth Reginah Mmanme Moremi
- Zanele Silindwe Innocentia Nd wandwe
- Pakiso Martha Netshidzivhani
- Koena Joseph Nkoko
- *Moremi Eric Nkosi
- Bakang Joseph Oliphant
- Carlo Sean Prins
- Selina Mthipana Ralefe
- Mapula Daphne Ramokgopa
- Damaris Mmahlako Thema

**POSTGRADUATE DIPLOMA IN MATERNAL AND CHILD HEALTH**

- Stably Msiska
POSTGRADUATE DIPLOMA
IN INTERNATIONAL RESEARCH ETHICS

*Elizabeth Anne Bukusi
Nuraan Fakier
*Eucebious Lekalakala-Mokgele
*Mupata Lebwili Likibi
Fiona Makoni
*Debra Ann Mc Alister
*(With distinction) Neil Hugh Mc Kerrow
Carol Ann Metcalf
*Ernest Mosimanegape Moseki
*John Michael Mutsambi
*William Khumalo Ngwira
Robert Matthew Smith
Margaret Wazakili

POSTGRADUATE DIPLOMA
IN NURSING

Marcia Theresa Adams
Tembeka Patricia Bomela
Sophia Gelderbloem
Melanie Govender
*Lungelwa Patricia Mfuni Selwa
*Nomaxabiso Mgayi
Mpho Refelo Phooko
Zukiswa Gloria Xuba

POSTGRADUATE DIPLOMA
IN PALLIATIVE MEDICINE

*Katherine Margaret Gill
*Elvis Joseph Miti
Keletso Constance Mmoledi
*Fikile Primrose Mtshali

POSTGRADUATE DIPLOMA
IN MARINE LAW:
(With distinction) Christopher Graham Brown

POSTGRADUATE DIPLOMA
IN PUBLIC LAW:
*Shingira Samantha Masanzu

POSTGRADUATE DIPLOMA
IN SOCIAL JUSTICE:
*(With distinction) Jennifer van Heerden

POSTGRADUATE DIPLOMA
IN TAX LAW:
*Natalie Saddleton Ball
*(With distinction) Lori Hayley Berelowitz
*Lianne Claire Bowker
*Jessica Lindsay Brits
*Maria John Carvounes
*Michele Groenewald
Jared Hoover
Faizel Jacobs
Pravir Jeavon
*Nokuzola Siphiwe Kumalo
Mundheera Lallbahadur
Nkulolo Lindi
Meshack Nelwamondo
Farrah O’Connor
Kyle David Paulsen
*Carsten Roland
Dominique Ingrid Ryan
Natasha van der Meer

POSTGRADUATE DIPLOMA
IN COMMERCIAL LAW:

3. FACULTY OF LAW

Dean: Professor P J Schwikkard

POSTGRADUATE DIPLOMA IN LAW

In Commercial Law:
*Heinrich Casper Jansen van Rensburg
*Craig Anperson King

In Intellectual Property Law:
Justin de Jager

In Economics and Finance:
*Ilan Arbel
Dominique Tanya Cohen
Gabriella Greyling
*Edward Richard Kilbee
*Fabrice Muhizi
Mumbi Tenga Ng’andwe
*Thabiso Innocent Nkile
Shaheed Patel
Matthew Fredric Peters
*Kabo Dennison Thutwe
Maryam Walters
Aaisha Wazar

In Economics and Law:
*Jessica Anne Findlay

In Financial Accounting:
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*Anisha Esther Babu
Jamie-Lee Bent
*Luzuko Billie
Matthew Arthur Bowman
Mpumelelo Cele
Robyn Anne Cerrai
Brandon Chetty
Zaheer Chothia
Amy Jane Crowsley
Candice de Beer
*Armin Sven Diemer
Nondumiso Truth Dlamini
Nomathamsana Fortunate Dlomo
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Lulu Jji Dyarrow
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Samkelo Given Freemantle
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*Nolwandle Nokuthokho Mthombeni
*Jacques Christopher Muller
Namobe Jessie Mwinga
Zandisile Mzalisi
Romesh Logan Naidoo

In Economics and Statistics:
Darren Murray Chandler

In Marine Law:

4. FACULTY OF COMMERCE

Dean: Professor D Ross

DEGREE OF BACHELOR OF COMMERCE

In Economics and Finance:
*Ilan Arbel
Dominique Tanya Cohen
Gabriella Greyling
*Edward Richard Kilbee
*Fabrice Muhizi
Mumbi Tenga Ng’andwe
*Thabiso Innocent Nkile
Shaheed Patel
Matthew Fredric Peters
*Kabo Dennison Thutwe
Maryam Walters
Aaisha Wazar

In Economics and Law:
*Jessica Anne Findlay
DEGREE OF BACHELOR OF BUSINESS SCIENCE

In Management Studies:
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- Ebrahim Adams
- Anthea Nadia Angermund
- Rebecca Jayne Ayres
- Nornhili Thandeka Buthelezi
- Terry-Sue Cochrane
- Jacob Izak du Toit
- Yumna Ebrahim
- Kearon Gordon

*Yatish Govan
* Dale Greenberg
* Mohamed Waseem Ismail
* Gerhardt Corry Janse van Vuuren
* Kudzai Farai Madzikanda
* Pyi Sone Maung
* Adam Michael Mausenbaum
* Karabo Moeletsi
* Onalenna Mokubung
* Thandazile Immaculate Mtshali

In Financial Accounting and Economics:
- Ayub Baker

In Information Systems:
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- Brendan John Butt
- Mei-Miao Chen
- Rayhaan Ghumra
- Tasneem Jaffer
- Karabo Michael Kuba
- Faustinah Petinah Tahwa Magama
- Tinashe Donald Mhlanga
- * Hristo Stiliyanov Simeanov

6. FACULTY OF HEALTH SCIENCES

Dean: Professor M E Jacobs

DEGREE OF BACHELOR OF SCIENCE IN AUDIOLGY

*Refiloe Norah Maloa

DEGREE OF BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY

Lethiwe Hlengiwe Msimanga
Nombulelo Sogoni
Farzaanah Vaggie
Samukelsiwe Zamancwane Zungu

DEGREE OF BACHELOR OF SCIENCE IN PHYSIOTHERAPY

Alexa Bicca
Kaamilah Cornelius

7. FACULTY OF COMMERCE

Dean: Professor D Ross

DEGREE OF BACHELOR OF COMMERCE (HONOURS)

In Economics:
* Anthony Kouders
* Nastassja Penelope Welihockyj

In Financial Analysis and Portfolio Management:
Ibidolapo Adejuyigbe
* Jennifer Arendse
Charles Kenrick Brown
* Geoffrey John Boyd Butcher
Zvaitwa Chiviya
* Adam Frank Crawley

In Philosophy, Politics and Economics:
- Ridwaan Nizam Kalla
- Hlengiwe Thembelihle Khanyile
- Mathe Marengwa
- Kaeliho Bakhita Motsohi
- Ruth Mulenga
- Mpho Nontombi Raboeane
- Ntombesizwe Sibulele Vabaza
- * Cassandra Elizabeth Young

DEGREE OF BACHELOR OF LAWS

Dean: Professor P J Schwikkard

In Economics:
* Aina Ndapanda Amputu
* Jacqueline Candice Bester
* Mogamat Botha
* Rebecca Maria Browning
* Kirsty Ann Dean
* Katherine Mary Handley
* Benjamin Burnham King
* Carla Michael Lowton
* Nathanael Reuben Mauritz
* Lauren Erica Mentor
* Wame Neo Moloi
* Jabulani Dlangami Nhongo
* Eunice Pieterse

In Financial Analysis and Portfolio Management:
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* Jennifer Arendse
Charles Kenrick Brown
* Geoffrey John Boyd Butcher
Zvaitwa Chiviya
* Adam Frank Crawley
In Financial Management:
*Perrin Nceba Jwaai
*Colin Neil Mackenzie
*Nokwanda Mgwudwa
*David Renato Tosi
*Lee-Anne Trower

In Information Systems:
*Lloyd Roderick Gray
*Isolot Jansen
*Johannes Albertus Louw
*Sicelo Bongani Mpfou
* Sikhumuzo Sifelani Sibanda
* Zacharias Francois Venter
* Craig Cormack Wallace

In Organisational Psychology:
*Lindokuhle Nokwazi Dube

In Strategic Cost Management:
*Mpho Mokgolo
*Hildah Saruchera

In Taxation:
Zaibunnisa Cassiem
Coster Mukwata

DEGREE OF MASTER OF COMMERCE

In Applied Economics:
Justin Heyns
(With distinction) Clare Elizabeth Hofmeyr
Thulani Dumisani Success Madinginye
Sehule Nontutuzelo Mtj
Thando Selaelo Vilakazi

DEGREE OF MASTER OF BUSINESS SCIENCE

In Economics:
(Luke Peter Barnett
Grieve Chelwa
*Blake Charles Cuningham
*Nathaniel Patrick John Martin
(Dissertation with distinction) Samson Mukanjari
Robert John Price

In Economic Science:
(With distinction) Valeri Sokolovski

In Financial Management:
(With distinction) Carli Aldrich
*(With distinction) Carol Ann Cairney
*Andrew Guy Coulta
*Alasdair Hugh Donaldson
*Mark Joel Greenbaum
*Luke Oliver Henning
James Willy Henshall-Howard (with distinction in the Dissertation and the degree with distinction)
*Steffen John Henry Josephs
*Lisa Levinson
*Lekale Given Maelane
Willem Johannes Stephanus Meyer
*Kwasi Okyere-Boakye
(Dissertation with distinction) Martin West

DEGREE OF MASTER OF PHILOSOPHY

In Demography:
*Farai Showman Chinanayi
*Mathias Leo Kamugisha
*Takura Kupamupindi
*Andrew Magadzire
*Double-Hugh Sid-Vicious Marera
*Tafumwa Pashapa

In Mathematical Finance:
*Amiel Holilal
(With distinction) Paolo Piero Innocenzi
(With distinction) Aveshen Pillay
(With distinction) Megan Jane Wilks
(With distinction) Yanni Yang

In Programme Evaluation:
*Anje Minette Coetzer
*Sithembile Dube
*Stella Maris Kyobula Mukoza
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<thead>
<tr>
<th>Name</th>
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<td>8. FACULTY OF HEALTH SCIENCES</td>
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In Physiology:
(With distinction) Jonathan Chan King
*Erica-Mari Nell

DEGREE OF MASTER OF
SCIENCE IN NURSING

Comfort Asoogo
(Dissertation with distinction) Gail Rosamund Irwin

DEGREE OF MASTER OF
SCIENCE IN OCCUPATIONAL THERAPY

Dorothy Chinguo
*Ka Yan Ho

DEGREE OF MASTER OF
SCIENCE IN PHYSIOTHERAPY

Donna de Grass
*Marike Daniela Pronk

9. FACULTY OF LAW

Dean: Professor P J Schwikkard

DEGREE OF MASTER OF LAWS

Kelly Graham
Tracy Lee Hockly

In Biotechnology, Ethics and Law:
*Knut Erik Schreiber

In Commercial Law:
Rashri Baboolal
Michael Foleng Foncha
*Jörn Dietrich Johannsen
Mwanchela Muyaka Kakubo
*Kristjan Kotkas
Hendrik Jacobus Krog
Michelle Rufaro Maziwisa
Nomkhosi Nothando Pearl Mthethwa
Tom Mzumara
*Herbert Mburu Ndungu
Lerato Ngwenya
Lister Gcinikaya Nuku
Daudi Abdallah Rhamadhani

In Constitutional and Administrative Law:
(With distinction) Julian Jesse van Niekerk
*Marianne van Niekerk
*Donata Elisabeth von Enzberg

In Criminal Justice:
Jameelah Omar

In Environmental Law:
(With distinction) Olivia Victoria Rumble

In Human Rights Law:
Gwenaelle Dereymaeker
Monica de Souza
Yellavarne Sulorsinha Moodley
Elizabeth Thandizo Mwambala
Chipo Mushota Nkhata
Laverne Fleur Portellas

DEGREE OF MASTER OF
PHILOSOPHY

In Information Communication Technology Law:
Sumaiyah Makda
Joseph Nyiringabo
*William Andrew Richard Weeks

In Intellectual Property Law:
Gabrielle Kate Morris
*Nicole Schrodell
Catherine Leigh Stowell
*Dominik Klaus Philipp von Seefranz
*Felix Fritz Wunderlin

In International Law:
Stephen Kimani Gatama
*Delphine Myriam Elodie Nessaf
Brian Kibet Yegon Sang
*Stefan Schulze
Clive Vinti

In International Law:
(With distinction) Shirin Taherzadeh-Malmiri
Langton Miriyoga

In Marine and Environmental Law:
*Stephanie Jo Williams

In Social Justice:
*Dennis Vadimovich Anushko
*Samantha Catherine Dallas
Eloneor Oti Ebobisse
Vivienne Antoinette McDonald
*Julia Lauren Spurdle

In Tax Law:

In Tax Law:
Brian David Dickinson
Nadia Maritz

In Tax Law:

In Tax Law:

In Tax Law:

In Tax Law:

*Yemisi Eunice Oladipo
*Natalie Isabelle Sanchez
*Nina Stuhrmann
*Emmanuel Yanick Tchamba Nima
Sherry Frances Vermaak

*Felicity Kayumba Kalunga
Chiedza Simbo

In Social Justice:

In Social Justice:
Kibuta Ongwamuhana’s PhD thesis examines the problem of low level compliance with taxation in Tanzania. It proceeds from the premise that high level taxpayer compliance is essential to the success of the tax system. Unless taxpayer compliance is achieved at sufficient levels, the performance of the tax system will be significantly impaired. Kibuta Ongwamuhana PhD thesis argues that tax laws do not sufficiently address voluntary taxpayer compliance.

The major finding of Kibuta Ongwamuhana’s PhD study is that existing tax laws in Tanzania do not encourage taxpayer compliance. Kibuta Ongwamuhana’s PhD thesis makes the recommendation that the tax laws need to be reviewed, negative governance issues which impact adversely on taxpayer compliance attitudes in Tanzania must be addressed, and over-reliance on enforcement must be avoided, if high level tax compliance is to be achieved.

**Supervisor:** Professor R Jooste

**Co-supervisor:** A/Professor J Roeleveld (Accounting)

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**Evan Blecher**

Evan Blecher was born and raised in Port Elizabeth. He holds a B (Bus) (Sci) degree from UCT and an MA degree from the University of the West of England. He has taught economics and health economics at UCT and currently works for the American Cancer Society in Atlanta, Georgia, USA.

Evan Blecher’s PhD thesis investigates the effectiveness of excise tax increases and advertising restrictions to reduce tobacco consumption, particularly in low-and-middle-income countries (Imic). Many Imic’s experience rapid economic growth and the associated rising incomes are making cigarettes more affordable. It is found that over the past two decades cigarettes have become more affordable in Imic’s. It is argued that excise tax increases on tobacco should be anchored on the affordability concept, rather than a tax burden (i.e. excise tax as a percentage of the retail price), as is currently the case. An increase in illicit trading in cigarettes can be a major obstacle to higher taxes. Using South Africa as a case study, Evan Blecher finds that the illicit trade in cigarettes has not undermined tobacco control efforts.

Evan Blecher’s PhD thesis also tests the impact of advertising bans on a large cross section of countries, including many Imic’s. Advertising bans reduce consumption and are more effective in Imic’s than in high-income countries. Partial advertising bans are not effective as a tobacco control tool. However, comprehensive advertising bans are effective.

**Supervisor:** A/ Professor C van Walbeek (Economics)

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**Grace Kumchulesi**

Grace Kumchulesi obtained a B (Soc) (Sci) and an MA from the University of Malawi. She has been studying at UCT, in the School of Economics since 2005.

Grace Kumchulesi’s PhD thesis investigates declining marriages among African women in the post-apartheid South Africa (1995-2006). She uses a synthetic panel from repeated cross-sectional datasets to establish if the drop in marriage rates observed in more recent cross-section in comparison with the earlier cross-sections is a real decline in...
marriages. She confirms that the marriage decline is a real phenomenon, which is not just driven by change in the sampling design of the surveys. Grace Kumchulesi finds empirical support for the women’s economic independence hypothesis in explaining the marriage decline. According to this hypothesis, high levels of education and increases in labour force participation for African women imply that they can now compete with their male counterparts for jobs. Labour force participation and education each have a negative effect on women’s likelihood of marriage, driving non-marriage behaviour as the financial gains from marriage are diminished. Empirical findings also support the “man gains from marriage are diminished” hypothesis, that a shortage of potential spouses reduces the likelihood of marriage. However, since availability of economically attractive men increased over the period under review, it is not surprising that the shortage of potential spouses did not contribute to the marriage decline.

Supervisor: A/Professor M Wittenberg (Economics)

Chrispin Mphuka
Thesis Title: Poverty and inequality measurement and determinants: the case of Zambia

Chrispin Mphuka has a BA in Economics from the University of Zambia and an MSc in Economics and Econometrics from the University of Manchester in the United Kingdom. He is a lecturer in Economics at the University of Zambia, teaching econometrics and microeconomics. He has been studying for his PhD at UCT since July 2006.

Chrispin Mphuka’s PhD thesis examines the effects of changes in education, employment and household structure on poverty and inequality in Zambia between 1991 and 2004. The main contributions of the thesis are to measure more rigorously than previously the evolution of poverty and inequality in Zambia between 1991 and 2004, and then to use best-practice statistical techniques to derive and identify the most important “drivers” of these changes. Zambia is shown to have experienced decrease in the incidence of poverty along with a decrease in income inequality. The main findings are that improvements in the education levels of the population and the economic returns to this education together with employment have been the main “drivers” in the decline of inequality. Simulations show that the fall in poverty was associated with having household members with at least secondary education and access to formal sector employment.

Supervisor: Professor M Leibbrandt (Economics)

Aylit Romm
Thesis Title: Three essays on retirement date expectations and savings behavior

Aylit Romm obtained a BSc in Mathematics and Economics, a B (Com) (Hons) and an M (Com) in Economics, all from the University of the Witwatersrand. She has been an associate lecturer and then full-time lecturer at the University of the Witwatersrand, since 2000. She was the recipient of the Ronnie Bethlehem Fellowship and won an award from the South African Savings Institute for excellence in research in the area of saving.

Aylit Romm’s PhD thesis examines retirement expectations and their impact on savings behaviour. In a major theoretical contribution, she shows that the magnitude of the savings response by young people to changes in the retirement date depends on the degree to which utility is separable in consumption and leisure. She then estimates the relationship empirically and shows that large responses on the part of American adults to changes in retirement date expectations can be seen. Finally, she turns to a puzzle in the analysis of retirement date expectations, viz. why many individuals consistently overestimate the probability of working past the age of sixty-two. She shows that this lack of convergence of the subjective beliefs to the objective probabilities is driven largely by a group of individuals who give the “focal point” response of 100%. She provides a novel interpretation of this response in terms of ambiguous belief dynamics that arise in new developments in decision theory such as Choquet expected utility theory.

Supervisor: Professor N Viegi (Economics)

Abraham Karige Waithima
Thesis Title: The role of gender, ethnicity and harambee in corruption: experimental evidence from Kenya

Abraham Waithima obtained a BA in Economics from Moi University in Kenya and an MSc in Economics from Addis Ababa University in Ethiopia. He has been studying at UCT in the School of Economics since 2006 as a participant in the African Economic Research Consortium PhD Programme.

Abraham Waithima’s PhD thesis uses a series of experimental games to examine the impact of gender, ethnicity and the practice of harambee on the individual
propensity to engage in or punish corrupt acts. Consistent with notions of in-group reciprocity, the results show that individuals are more likely to offer a bribe to a co-ethnic individual, especially if the person tasked with punishing the act of corruption is also co-ethnic. Moreover, individuals tasked with punishment are more likely to punish co-ethnic individuals who accept bribes from non-co-ethnic bribe givers as opposed to co-ethnic bribe givers. In contrast, when gender is revealed, individuals are more likely to offer a bribe to a member of the opposite sex, when the bribe giver and the punisher share the same gender. To the extent that a bribe giver behaves in this way because they anticipate no punitive action at the expense of others.

Cheryl Brown’s PhD thesis critiques the opinion that technology is automatically a necessary and good tool for societal and educational change and seeks to use the knowledge created from the research as a catalyst for change by giving voice to marginalized student groups.

Supervisor: Professor M Hart
(Information Systems)

In Information Systems:
Cheryl Lee Brown
Thesis Title: Excavating the meaning of information and communication technology use amongst South African university students: a critical discourse analysis

Cheryl Brown obtained her BA, BA (Hons) and MA degrees in Archaeology from UCT. She is a lecturer in the Centre for Educational Technology at UCT. She has been working in the field of teaching and learning in universities for the past 15 years, both in Australia and South Africa, where her focus has been on the use of educational technology in higher education particularly students’ access to and use of technology for learning.

Cheryl Brown’s PhD thesis focuses on students’ perspectives about what Information and Communication Technologies (ICTs) really means to them as individuals and looks at (a) how these meanings are affected by students’ social background and access to ICTs, and (b) how this influences their academic literacy and use of ICTs. In her thesis she looks beyond what students are saying about technologies to how they talk about technology in a bid to uncover different technological identities expressed by university students. Common technological identities associated with discourses of globalization, learning, determinism and liberation were shown to have a bearing on students’ current and potential future uses of ICTs for learning. The nature of the Discourses uncovered in this study shows that whilst students are adopting the positive expressions of the digital elite with regards to ICTs their discourses are complex and often contradictory, reinforcing power, domination and interests of certain students at the expense of others.

In Management Studies:
Ryan Kruger
Thesis Title: Evidence of return predictability on the Johannesburg Stock Exchange

Ryan Kruger obtained a B (Bus) (Sci) and an M (Bus) (Sci) in Business Science with distinctions, both from UCT. He is a valued staff member of the Finance Section of UCT’s School of Management Studies, where he has been a lecturer in finance.

Ryan Kruger’s PhD thesis investigates return predictability on the Johannesburg Stock Exchange, with particular emphasis on the incidence and nature of linear and nonlinear serial dependence underlying the return generation process, and the consistency of return predictability between a stable and market crisis period. By comparing the forecasting ability of a number of linear and nonlinear prediction models, he shows that potential forecasting gains are possible by enhancing linear models with nonlinear innovations, particularly in periods of financial stability. In addition, a comparison of the relationship between share returns and a range of fundamental firm characteristics between a stable and market crisis period support prior studies for the stable period. Lastly, portfolios formed on the basis of predictions of the linear factor models developed above are shown to outperform the All-Share Index (ALSI) during both the stable market period, as well as the out-of-sample market crisis period, provided transaction costs are kept below 20 basis points per (one-way) trade for the latter.

Supervisor: Dr F Toerien
(Management Studies)
Co-supervisor: A/Professor I McDonald
(Management Studies: School of Actuarial Science)

David Aleksander Prilaiad
Thesis Title: The hedonic valuation of South African wine brands

David Prilaiad was born in Cape Town in January 1965, matriculating from Rondebosch Boys’ High in 1982. Following military conscription, he attended UCT, graduating with a BSc in 1987. At UCT he has since obtained further degrees and diplomas including an MSc in Environmental Studies and an MBA from the Graduate School of Business. Currently a senior lecturer within the School of Management Studies, he has authored and co-authored several internationally published wine studies. David Prilaiad sits on the editorial board of the International Journal of Wine Research.

David Prilaiad’s PhD thesis presents the application of an approach to the problems of brand valuation. Deploying blind and sighted versions of hedonic quality it defines (a) “functional” wine brands as those with consistently higher levels of intrinsic quality as proxied by their blind tasting scores, and (b) placebo-type “symbolic” wine brands as those with statistically significant positive predictive differences between their blind and sighted scores. Through a series of econometric analyses applied to some 8225 wines sampled over the eight year period from 2000 to 2007, a higher proportion of functional-to-symbolic brands are identified. Bi-polar clustering is observed where brands decompose into zones of either Symbolic Values (with positive placebos and weak intrinsics) or Functional Values (with negative placebos and strong intrinsics).

Two wine brand valuation...
The use of hedonic wine valuation models and techniques are presented and comparatively assessed. Each is based on the combined use of hedonic wine valuation models and conventional asset valuation methodologies. The first price-premium approach defines the brand premium as the difference between a wine’s price and a valuation of its intrinsic worth as measured by blind ratings. The second quality premium approach defines brand premium as the difference between a wine’s intrinsic values and (instead of price) the value of its perceived quality when sampled sighted. With a set of assumptions regarding consistency in future wine quality, hectarage and sales volumes, brand valuations for each method are calculated as the net present value of the brand premiums paid over the total cases sold, thereby identifying and valuing South Africa’s top wine brands.

**Supervisor:** Professor P van Rensburg
(Management Studies)

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**II. FACULTY OF HEALTH SCIENCES**

**Dean:** Professor M E Jacobs

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**DEGREE OF DOCTOR OF PHILOSOPHY**

**In Biomedical Engineering:**

*Aaron Timothy Hess*

*Thesis Title: Real-time motion and main magnetic field correction in MR spectroscopy using an EPI volumetric navigator*

Aaron Hess completed his BSc (Eng) in Electrical and Computer Engineering and an MSc (Med) in Biomedical Engineering. In 2008 he enrolled for a PhD degree in Biomedical Engineering in the Department of Human Biology. During this time he contributed to and engaged with fellow students and staff on a number of MRI related research projects.

Aaron Hess’ PhD thesis examines and addresses the problems caused by motion in Magnetic Resonance Spectroscopy. He developed and implemented a navigated sequence that employs a novel echo planar imaging volumetric navigator to perform voxel localisation, frequency correction, and main magnetic field shim correction in real time during the scan. The navigator has been implemented in both single voxel spectroscopy (SVS) and magnetic resonance spectroscopic imaging (MRSI) sequences and has been validated in healthy volunteers. It was shown that spectral linewidth and signal to noise ratio are maintained in the presence of motion and that the navigator has no observable effect on the spectral signal to noise ratio compared to standard sequences. A novel pre-processing technique corrects residual frequency and phase errors in SVS. The navigated sequence has been used successfully to acquire 99 SVS scans in 5 and 10 year old children. In the 10 year old children, spectra demonstrated reduced variance in concentrations, reduced linewidths, and an increased signal to noise ratio compared to baseline scans performed a year earlier using standard sequences. Although 15% of the scans acquired in 5 year old children demonstrated significant movement, 98% produced high quality spectra using the navigated sequence.

**Supervisor:** A/Professor EM Meintjes
(Human Biology)
**Co-supervisor:** Dr AJW van der Kouwe
(Harvard Medical School)

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**In Cardiothoracic Surgery:**

*Stephan Dobner*

*Thesis Title: Investigations into the stability of growth factor induced-vasculature and the effects of synthetic biomaterials on heart remodelling after myocardial infarction*

Stephan Dobner obtained his MD degree from the University of Vienna Medical School in 2004. He then moved to Cape Town to pursue his PhD at the Cardiovascular Research Unit at UCT. Since January 2009, he has been working as a research fellow in the Cardiovascular Division at Brigham and Women’s Hospital, Harvard Medical School.

Stephan Dobner’s PhD thesis explores delivery modalities for a number of growth factors in the context of blood vessel stimulation, a critical aspect in the new discipline of regenerative medicine. In an important finding for the field, he showed that stable blood vessels could be formed with a single growth factor (vascular endothelial growth factor) with the proviso that dosage was optimised and delivery duration was sufficiently prolonged. He further investigates the utility of biomaterials for the treatment of heart attacks and was the first to show that fully synthetic hydrogels can limit the extent of pathological remodelling of cardiac tissue after a heart attack. Further investigations towards determining advantageous characteristics for these types of gels, he determined that though desirable theoretically, permanent gels elicited an unfavourable foreign body response. By introducing enzymatic degradability into these gels, this response was substantially reduced. As a result of his work, the platform is now firmly set to further develop the growth factor delivery potential of these gels for heart attack therapy.

**Supervisor:** Dr N Davies (Surgery)

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**In Clinical Science and Immunology:**

Nasiema Allie

*Thesis Title: The role of cell specific tumour necrosis factor in the host’s immune response against Mycobacterium tuberculosis infection*

Nasiema Allie obtained BSc and a BSc (Med) (Hons) in Medicine from UCT. She joined the Division of Immunology at the UCT in 1998 as a member of staff and thereafter seized the opportunity to further her studies. Her accreditation with first and co-authorship of several publications over the years is testament to her invaluable contribution to the teaching and research activities of the division over the years.

Nasiema Allie’s PhD thesis investigates how tumour necrosis factor (TNF) derived from different cellular sources contributes to host immune function during challenge with the tuberculosis disease causing pathogen, Mycobacterium tuberculosis. Her work carefully dissected how TNF from innate immune cells such as macrophages, neutrophils and adaptive immune lymphocytic T-cells cooperate, to provide optimum protection during immune protection. Her results contribute significant new knowledge to current literature with novel observations particularly with respect to the undervalued role of T cell derived-TNF in determining disease outcome. On several fronts her results are novel and include findings that contradict current existing accepted dogma, particularly with respect to the relative importance of TNF generated from phagocytic cells against Mycobacterium tuberculosis during initial innate immune responses.

**Supervisor:** A/Professor M Jacobs
(Immunology)
Andrea Patricia Queiros Soares  

Thesis Title: Changes in the BCG-induced T cell response over the first year of life

Andrea Soares obtained her BSc degree at the University of the Free State and joined UCT in 2001 for her postgraduate studies in human genetics and immunology. Her career highlights include publishing her research as first author in international, peer reviewed journals, and presentations of her work at several international immunology meetings.

Andrea Soares’ PhD thesis aimed to describe T cell immunity induced by Bacillus Calmette-Guérin (BCG) vaccination of newborns, and to delineate longitudinal changes in this immunity over the first year of life. To achieve her aims, she developed multiple, novel assays of T cell immunity, specifically adjusted for use with small volumes of infant blood. Most assays involved complex polychromatic flow cytometry. She also played a central role in designing and executing clinical procedures to follow up 90 BCG-vaccinated babies for one year, to collect blood at appropriate times. She shows that BCG induces multiple, distinct CD4 and CD8 T cell subsets. Soares has been the first to define the complex cytokine and cytotoxic molecule expression and memory phenotypes among BCG-specific cells. Longitudinal analysis showed that the T cell responses peaked 6 weeks after vaccination, and gradually declined over the first year of life. Initially, immature specific T cells were present, while more mature cells emerged gradually over the first year of life. Andrea Soares’ results have advanced our knowledge of how the immune system matures over the first year of life, and have therefore attracted wide attention.

Andrea Soares’ results are also critical for guiding the optimal timing of new, tuberculosis vaccines that will in future be used to boost the BCG-induced immune response. The pattern of immune cell activation suggests that new boost vaccines should be given after 14 weeks of age; her results have directly guided future vaccination strategies to protect us against tuberculosis.

Supervisor: Professor WA Hanekom (Infectious Disease and Molecular Medicine)  
Co-supervisor: Dr B Abel (School of Child and Adolescent Health)

Nontobeko Gwendoline Tena-Coki  

Thesis Title: Investigations of mycobacteria-specific memory/effector T cell responses in HIV-infected children receiving antiretroviral therapy (ART)

Nontobeko Tena-Coki obtained an MSc from UCT. She has been conducting work for her PhD thesis at UCT since 2006, as part of a Wellcome Trust funded project in collaboration with Imperial College, London, UK, where she is a visiting scientist.

Nontobeko Tena-Coki’s PhD thesis examines the effects of anti-retroviral therapy (ART) on the development of immune responses to antigens which could be contained in new anti-TB vaccines. The antigens used in the laboratory tests were shown to induce strong immune responses in all groups of children, whether infected with HIV or not. This finding is encouraging news to employ these antigens in improved anti-TB vaccines for children in the future. The level of responses is weaker in HIV-infected children compared to non-HIV-infected. Nontobeko Tena-Coki shows that the degree of responsiveness to the antigens in children with HIV is directly correlated with their general T cell immune function, measured by CD4 T cell count, but not with antigen-specific T cell responses. She hypothesises that the numbers and qualitative function of such antigen-specific T cells might be enhanced through ART, and she followed this group of children for 12 months, measuring the immune responses every 3 months. As expected, the introduction of ART lead to enhanced CD4 T cell counts, but not to increased antigen-specific responses, since most changes were seen in the non-antigen specific T cell populations. Her experiments did however show an increased ability to contain mycobacteria in an in vitro model, which she also employed in the laboratory to simulate the natural infection. Her project contributes to our detailed understanding of T cell responses in children in the context of mycobacterial infection.

Supervisor: A/Professor B Kampmann (Imperial College London)  
Co-supervisors: Professor W Hanekom (Infectious Disease and Molecular Medicine)  
Dr T Scriba (South African Vaccine Tuberculosis Initiative)
Juliet Evans obtained her BSc (Med) (Hons) in Exercise Science at UCT. For her PhD, Juliet Evans was awarded a fellowship from the Novo Nordisk Foundation, which enabled her to undertake part of her studies at Umeå University in Sweden, under the co-supervision of Professor Tommy Olsson.

Juliet Evans’ PhD thesis examines the ethnic-specific role of obesity and inflammation in identifying South African women at increased risk for cardiovascular disease and type two diabetes. By comparing methods for measuring central obesity, she found that a simple waist circumference measurement was able to identify an equivalent amount of disease risk compared to a more high risk and costly computerised tomography-derived measure. Furthermore, it was shown that circulating and adipose tissue levels of inflammatory proteins, and a polymorphism within the pro-inflammatory interleukin-18 gene, were associated with metabolic risk factors in both black and white women. However, she showed that black women had a higher inflammatory burden at a circulating, genetic, and adipose tissue level, compared to white women, but this did not explain ethnic differences in disease risk. In contrast, a simple measure of waist circumference explained the greatest proportion of variance in metabolic risk factors in both ethnicities. Notably, several modifiable risk factors, namely socioeconomic and lifestyle factors, such as contraceptive use and smoking, were shown to influence both inflammation and cardiovascular disease risk, and should be considered as targets for future disease prevention.

Supervisor: Dr JH Goedecke
(Human Biology)
Co-supervisor: Professor T Olsson
(Umeå University, Sweden)

In Exercise Science:
Juliet Patricia Evans
Thesis Title: The impact of obesity and inflammation on metabolic risk factors for cardiovascular disease and type two diabetes in South African women

In Human Genetics:
Janine Blackenberg
Thesis Title: Molecular genetics of arrhythmogenic right ventricular cardiomyopathy in South Africa

Janine Blackenberg obtained a BSc, BSc (Med) Hons and MSc (Med) from UCT.

Janine Blackenberg’s PhD thesis seeks to identify the causal genetic mutation in a pedigree segregating for arrhythmogenic right ventricular cardiomyopathy (ARVC). There was borderline evidence of linkage of ARVC to chromosome 10p12-p14 (LOD score 2.9), a region that was first linked to ARVC in a Newfoundland family. Mutation screening of 18 candidate genes in the chromosome 10 region did not reveal a causal mutation. Furthermore, no evidence was found of a major deletion or re-arrangement on fine mapping of the region using a dense array of single nucleotide polymorphisms (SNPs).

A 300,000 SNP whole genome linkage scan revealed an alternative candidate locus on chromosome 4. This new locus is an 8MB region containing 84 genes, some of which are promising candidate genes for ARVC. Her work has identified a hitherto unknown chromosomal locus for ARVC which will be relevant to the diagnosis, prevention and possibly treatment of the disease not only in this family, but in other cases of ARVC.

Supervisor: Professor BM Mayosi (Medicine)

In Medical Biochemistry:
Colin Scott Anthony
Thesis Title: The importance of N-linked glycosylation on the N-domain of angiotensin-I converting enzyme

Colin Anthony was born in Bulawayo, Zimbabwe, and grew up in Kimberley, South Africa. He received his BSc in 2005 from the UCT, majoring in Biochemistry and Genetics and Development. In 2006 Colin Anthony was awarded a BSc (Med) (Hons) in Medical Biochemistry from UCT.

Colin Anthony’s PhD thesis examines the role of the sugar chains attached to the N-domain of angiotensin converting enzyme (ACE). ACE is an important drug target in the treatment of heart disease, due to its ability to regulate blood pressure. ACE contains two domains, both of which have numerous sugar chains attached to them. Sugars attached to proteins, also termed glycosylation, have important functions in biology, including facilitating protein folding and modulation of the immune response. Sugar chains are required for the expression of active ACE, yet determining its 3D structure has been fraught with difficulties because of the attached sugar chains. The number of attached sugars was quantified and a range of minimally glycosylated ACE mutants were generated via recombinant DNA technology. The activity and thermal stability of these variants was assessed. Nine out of the ten sites where sugar chains can potentially be attached were found to contain sugars. Sugar chains at the C-terminal part of the enzyme were found to be critical for expression of active N-domain, while two N-terminal sugar chains were required for thermal stability. Additionally, the 3D structure of an N-domain variant with a minimal number of sugar chains was solved in the presence of an important N-domain inhibitor.

Supervisor: Professor ED Sturrock
(Medical Biochemistry)
Co-supervisor: Dr S Schwager
(Medical Biochemistry)

Riyad Domingo
Thesis Title: Characterization of the angiotensin-converting enzyme sheddase and synthesis of peptidomimetic inhibitors

Riyad Domingo obtained both his BSc and BSc (Hons) degrees from UCT. During his postgraduate studies, he gained valuable experience in cross-disciplinary research collaborating with the UCT/MRC Research Unit for Exercise Science and Sports Medicine and the UCT Medicinal Chemistry Group.

Riyad Domingo’s PhD thesis investigates the cleavage and release of the hypertensive protein angiotensin-converting enzyme (ACE) and examines the properties of the protein responsible for this process. ACE, a primary therapeutic target in the treatment of hypertension and critical in the maintenance of the human cardiovascular system, undergoes post-translational processing whereby the active ectodomain is proteolytically released from the cell membrane, termed ectodomain shedding, into the circulation and seminal fluid. A Disintegrin And Metalloprotease (ADAM) subfamily of proteases has been implicated in the release of the soluble form of ACE though the identity of the protein(s) involved has yet to be elucidated. Using novel fluorescence
resonance energy transfer assays and peptidomimetic inhibitors exploiting the spatial and hydrophobic properties of the ACE “sheddase”, and cell culture inhibition assays, new insights were gained into the functional relationship between ACE and its candidate sheddase.

**Supervisor:** Professor ED Sturrock (Medical Biochemistry)

Ross Gavin Douglas

**Thesis Title:** *The significance of active site residues in the N-domain selectivity of angiotensin-converting enzyme*

Ross Douglas was born in Port Elizabeth and grew up in East London. He was awarded a BSc degree specialising in Chemistry and Biochemistry in 2005 and a BSc (Med) (Hons) degree in Medical Biochemistry in 2006 from UCT and commenced his postgraduate studies in 2007.

Ross Douglas’ PhD thesis focuses on the identification of amino acids that allow for the differential functioning of the N-domain of angiotensin-converting enzyme (ACE). ACE is an enzyme that plays an important role in cardiovascular function. ACE consists of two parts known as the N- and C-domains that, although similar in sequence and structure, display functional differences. The N-domain cleaves AcSDKP, a peptide that is important in lowering tissue collagen deposition. Ross Douglas used available structural models to identify unique amino acids in the N-domain and converted these amino acids into the corresponding C-domain counterparts by recombinant DNA technology. These mutant enzymes were expressed in a mammalian cell line and purified for kinetic studies, involving substrate processing and inhibitor binding. Ross Douglas shows that two amino acids in one particular pocket of the enzyme active site played the most prominent role in the processing of certain selective substrates and the binding of selective inhibitors. Using this information, compounds were designed and showed improved binding for the N-domain. This work provides valuable information for the design of ACE inhibitors that could be useful for the treatment of pulmonary fibrosis, of which there are currently no effective treatments.

**Supervisor:** Professor ED Sturrock (Medical Biochemistry)

Kerry Gordon

**Thesis Title:** *Protein-protein interactions of human somatic angiotensin-converting enzyme*

Kerry Gordon conducted her postgraduate research with the Zinc Metalloprotease Group in the Division of Medical Biochemistry after obtaining a BSc from the Department of Molecular and Cell Biology. During her doctoral degree, she has been involved in undergraduate teaching for the M BCHB programme and supervision of postgraduate students.

Kerry Gordon’s PhD thesis explores the protein-protein interactions of angiotensin-converting enzyme (ACE), a key regulator of blood pressure, to further understand the cross talk between this enzyme and components of other systems. Kerry Gordon’s work focuses on the effects of particular regions or amino acid residues on the expression of ACE in mammalian cells, with respect to two key events, namely dimerisation and shedding. This was investigated using the three-dimensional structure of ACE, a panel of specific ACE antibodies and site-directed mutagenesis. She found that unbound disulphide residues within the protein played an important role in both shedding and dimerisation. One of these residues was also used to engineer a novel disulphide bridge towards stabilising the protein for crystallisation. Kerry Gordon’s PhD thesis has increased our understanding of the role that certain regions and residues play in the cellular processing of ACE and in protein-protein interactions. This includes the characterisation of a novel familial mutation, which results in increased plasma ACE levels that are associated with adverse effects.

**Supervisor:** A/Professor A Katz (Medical Biochemistry)

In Medical Virology:

Nonhlanhla Nono Mkhize

**Thesis Title:** *Highly active anti-retroviral therapy (HAART) in the control of genital tract HIV shedding and reconstitution of immune responses in HIV-infected women*

Nonhlanhla Mkhize (née Nkwanyana) obtained her International Baccalaureate (Diploma) from the Lester B. Pearson United World College of the Pacific in Vancouver, Canada in 1998 where she served as Director of the United World Colleges student network. She completed her BSc in Biochemistry and Chemistry at UCT in 2002 followed by her BSc (Med) (Hons) and MSc (Med) degrees in Medical Biochemistry in 2003 and 2006, respectively. She has been studying at UCT towards her PhD, in the Division of Medical Virology, since 2007. During this time, she has received several awards including the
Nonhlanhla Mkhize’s PhD thesis examines the impact of HIV-infection and highly active anti-retroviral therapy (HAART) on protective immune responses in the female genital tract. She shows that HIV infection and local inflammation are associated with cervical CD4 T cell depletion and T cell exhaustion at the genital mucosa. Importantly, she shows that effective treatment with HAART significantly improved CD4 T cell numbers and decreased markers of immunological exhaustion in the genital tract. Despite improved immunological measures at this site in women on HAART, she shows that a subset of women on HAART are still shedding HIV in their genital secretions and preserve HIV-specific immune responses locally, indicating that viral reservoirs are still present in genital tissue despite full suppression of viraemia in blood.

Supervisor: Dr J-A Passmore (Medical Virology)

In Medicine:
Kerryn Matthews
Thesis Title: Immunological analysis of pericardial tuberculosis

Kerryn Matthews (née van Veen) obtained her BSc (Med) (Hons) in 2006, following which she registered for MSc (Med) and upgraded to a PhD in 2008. She obtained a prestigious Master’s Fellowship in Public Health and Tropical Medicine for Researchers in Developing Countries in 2007 and a Prize Studentship in 2009 from the Welcome Trust.

Pericardial tuberculosis (TB) is an extraperitoneal form of tuberculosis, and accounts for more than 60% of pericarditis cases in the developing world compared to approximately 4% in first world countries. It is also associated with HIV infection. Sites of established disease in humans represent compartments of failed immune control, offering the opportunity to study immune mediators and understand mechanisms of immune control in humans.

Kerryn Matthews’ PhD thesis aims to immunologically characterise TB at the site of disease using pericardial fluid and blood from 96 patients (71% HIV-1 infected), using T cell immunomodulatory and transcriptional profiling by real time RT-PCR, as well as protein analysis of the serum. She found that Mycobacterium tuberculosis infection of the pericardium elicits a prominent Th1 type response, which is affected by HIV infection by skewing memory T cells towards a less differentiated phenotype, that are less equipped to control the disease. Transcriptional analysis indicated that the pericardium is a strongly pro-fibrotic environment, irrespective of the HIV status of the patients.

Supervisor: Dr KA Wilkinson (Infectious Disease & Molecular Medicine)
Co-supervisors: Professor B Mayosi (Medicine)
A/Professor RJ Wilkinson (Infectious Disease & Molecular Medicine)

Keren Middelkoop
Thesis Title: The effect of HIV and an antiretroviral treatment programme on tuberculosis transmission, incidence and prevalence in a South African township

Keren Middelkoop obtained her MBCHB degree from the UCT. She has been a Senior Investigator and Research Fellow at the Desmond Tutu HIV Centre in the Institute of Infectious Disease and Molecular Medicine and was awarded a Clinical Infectious Diseases Research Initiative Grant in 2011. She has co-authored many scientific publications, presented at international conferences and been the primary author of eight scientific papers during her PhD studies.

Tuberculosis (TB) remains a significant cause of morbidity and mortality in countries with high HIV prevalence, such as South Africa. Keren Middelkoop’s PhD thesis describes the epidemiology of TB in a high HIV and TB prevalent community from 1997 to 2008, and assessed the effect of HIV and its treatment on the TB epidemic in this setting. The study community was a typical South African township, with substantial burdens of both TB and HIV disease. Data were drawn from a number of sources, including population surveys, TB notification registers, and HIV and highly active anti-retroviral therapy (HAART) databases. The risk factors associated with TB transmission to children on residential plots were analyzed using adult and childhood TB cases extracted from the community TB notification register and tuberculin survey results. Molecular epidemiology and geographic information systems were used to investigate TB transmission between adults, as well as the interaction between the HIV-associated and HIV-unassociated TB epidemics.

Supervisor: Professor R Wood (Medicine)
Co-supervisor: Professor L Bekker (Medicine)

*Kmpio Ntsekhe
Thesis Title: Studies of effusive constrictive pericarditis

Mpio Ntsekhe has a BA from Brown University of Providence and an MD from the Cornell University of New York, both in the USA. He has been working at Groote Schuur Hospital and has studied at UCT in the Department of Medicine, since 1995. During this time he was admitted as a Fellow of the College of Physicians of South Africa (2001), earned the Certificate in Cardiology of the Colleges of Medicine of South Africa (2004), and graduated with an M (Phil) in Cardiology in 2006.

Mpio Ntsekhe’s PhD thesis examines the frequency, cytokine profile, fractal dimension, and outcome of effusive constrictive pericarditis in patients with tuberculous pericardial effusion. He shows for the first time that tuberculous effusive constrictive pericarditis is the dominant form of effusive pericardial tuberculosis, that it has a distinctive cytokine signature and a unique fractal dimension whilst the outcome is similar to effusive non-constrictive pericarditis. The novel finding of a low level of N-acetyl-Ser-Asp-Lys-Pro [AcSDKP] (an anti-fibrotic biomarker) in tuberculous pericarditis reveals a potential role for the use of angiotensin-converting enzyme (ACE) inhibitors whose anti-fibrotic action is mediated through an AcSDKP raising effect.

Supervisor: Professor BM Mayosi (Medicine)

In Nursing:
Evalina van Wijk
Thesis Title: The lived experience of male intimate partners of female rape victims in Cape Town, South Africa

Evalina van Wijk has a BA (Curs) from UCT and an M (Curs) from the University of the Western Cape. She embarked on doctoral studies in the Division of Nursing and Midwifery, School of Health and Rehabilitation Sciences at UCT, in 2007, while working as a full-time lecturer in Mental Health Nursing at the Western Cape College of Nursing in Cape Town.

As an advanced mental health nurse practitioner, working with rape victims and their families, the needs of the secondary victims of sexual assault became the focus of Evalina van Wijk’s PhD thesis. In a longitudinal phenomenological study, she explored the lived experiences of intimate partners of female rape victims over the first six months following the incidence of rape. The interpretive analysis...
In Physiotherapy:
Marianne Unger
Thesis Title: The role of the abdominal muscles in pelvic positioning and lower limb function in children with spastic type cerebral palsy

Marianne Unger is a full time lecturer in Physiotherapy at Stellenbosch University, where she teaches movement analysis, re-education of movement and exercise. She has a special interest in paediatric neurology, in particular cerebral palsy (CP). The topic of her Master’s thesis related to strength training in CP and she continued her research in this field which lead to her PhD thesis.

Marianne Unger’s PhD thesis examines the role of the abdominal muscles in posture and functioning in children with spastic-type cerebral palsy (STCP). As no suitable instrument for investigating abdominal muscle activity in children existed, the first of four separate but related studies explores the utility and investigates the validity and reliability of ultrasound imaging for this purpose. Utilising US imaging the second and third studies compared children with typical development (TD) with children with STCP and contrary to expectation; the studies revealed that children with CP have thicker muscles than their age-matched peers. Although thickness of these muscles is related to strength in children with CP, the ability to recruit the abdominal stabilisers during activity is significantly less that that seen in children with TD. Although significant relationships exist between the ability to execute sit-ups, posture and walking function, muscle thickness was not found to be predictive of gait function. Based on the findings of Marianne Unger’s PhD thesis a four-week specific trunk-targeted exercise program executed on a vibrating platform was developed which provided evidence that the abdominal muscles in children with STCP can be strengthened with significant improvement in posture and gait.

Supervisor: A/Professor S Duma (Health and Rehabilitation Sciences)

In Psychiatry:
John Joska
Thesis Title: Neurocognitive disorders in young adults commencing highly active anti-retroviral treatment in the Western Cape

John Joska obtained his MBChB from UCT in 1993. He commenced training in Psychiatry in 1999, and completed the fellowship of the College of Psychiatrists in 2002. He also obtained his M (Med) in Psychiatry from UCT. He began working in the field of HIV psychiatry in 2006 and has developed several mental health services projects to people living with HIV in the Western Cape. One of these projects, aimed at better understanding the nature of cognitive problems in people living with HIV (PLWH), led to the completion of his PhD.

John Joska’s PhD thesis examines the nature and severity of neurocognitive disorders in a sample of clinic attendees in the Cape Town area. In John Joska’s PhD thesis, it is noted that HIV-associated neurocognitive disorders occur in more than 50% of people commencing highly active anti-retroviral therapy (HAART). In an analysis of the genetic vulnerability factor, apolipoprotein E, it was found that the E4 genetic variant was not associated with the development of HIV dementia in Cape Town. The use of a brief clinical screening tool for HIV dementia was reported to be fairly sensitive though only modestly specific for detecting the disorder. At one year follow-up, individuals commencing HAART improved significantly with respect to neurocognitive function. Those with more severe impairment pre-HAART improved the most. Worse HIV disease was not associated with worse outcome. It is not clear whether this improvement pattern reflects a unique response to HAART in individuals most severely affected by brain involvement of HIV, or an artifact of other individual factors such as practice effect. Further controlled studies are needed to clarify these.

Supervisor: Professor DJ Stein (Psychiatry and Mental Health)

Andreas Plüddemann
Thesis Title: Methamphetamine (“tik”) use, sexual risk, aggression and mental health among school going adolescents in Cape Town

Andreas Plüddemann obtained an MA in Psychology from the University of Stellenbosch. He is employed by the Medical Research Council and has been conducting research on substance abuse in South Africa since 1998. His primary focus areas include substance abuse epidemiology in South Africa and adolescent methamphetamine use. The primary purpose of his position is to stimulate and conduct research in the substance abuse field, to expand the knowledge and available data on substance abuse issues in South Africa.

Andreas Plüddemann’s PhD thesis investigates methamphetamine use and associated problems among adolescents in Cape Town. Using data from three studies he found a high prevalence of methamphetamine use among adolescents in Cape Town, as well as associations between methamphetamine use and mental health problems including depression and aggressive behaviour, sexual risk behaviour, and high school dropouts. He clearly demonstrates that methamphetamine use is a significant problem in Cape Town, and that developing strategies to curb and address this problem should be given priority. Andreas Plüddemann’s PhD thesis presents among the first and most comprehensive studies on adolescent methamphetamine use and associated problems internationally, and the first publications on this problem among adolescents in Africa. For South Africa, and Cape Town in particular, the greatest concern remains the associations between methamphetamine use and sexual risk behaviour, leading to an increased exposure to HIV. Further prevention efforts targeting both methamphetamine use and sexual risk behaviour should be a high priority for government and community based prevention efforts.

Supervisors: Professor A Flisher (Psychiatry and Mental Health)
A/Professor C Lund (Psychiatry and Mental Health)
Co-supervisor: Professor C Parry (Alcohol & Drug Abuse Research Unit, Medical Research Council)
Jane Harries has a BA (Hons), an M (Phil) and an MPH from UCT. She has been studying and working at UCT, in the School of Public Health and Family Medicine, since 2002. During this time she has held positions as a senior researcher and is currently the Associate Director of the Women’s Health Research Unit in the School of Public Health and Family Medicine. She has been a Principal Investigator on a number of reproductive health research projects.

Jane Harries’ PhD thesis examines health care providers’ perspectives on abortion service provision in the public sector in South Africa, employs a qualitative methodology and examines attitudes, experiences and practices of a wide range of abortion and health care providers in the Western Cape Province. Her findings are divided into individual/conceptual, institutional/health systems and social/political levels of analysis and a separate chapter on second trimester abortions is also included as this emerged as an issue of particular salience. Jane Harries’ PhD thesis describes a healthcare service that is significantly marginalised and stigmatised. She also describes the ways that those who do provide abortion services make sense of their decisions, derive professional and political satisfaction, and manage the social challenges, as well as the moral complexities involved.

Supervisor: Dr CJ Colvin
(Public Health and Family Medicine)
Co-supervisor: A/Professor L Myer
(Public Health & Family Medicine)

Mercy Gladys Sekai Kamupira
Thesis Title: Dyad-related factors in HIV prevention

Mercy Kamupira has an MBChB from the University of Zimbabwe and an MPH from UCT. She worked in the School of Public Health & Family Medicine at UCT from 2001 to 2006 where she managed several large trials investigating the role of microbicides and Herpes Simplex Virus treatment for HIV prevention. Her interest in these spurred the work that would become the focus of her PhD, a cross-sectional study of 600 couples seeking HIV testing in Gugulethu.

Mercy Kamupira’s PhD thesis explores how couples-based approaches may contribute to HIV prevention efforts. She explores the reasons why couples seek HIV testing, separately and together. Combining quantitative and qualitative data, she examines the strategy of couples-based HIV counselling and testing as a venue for HIV prevention efforts. Additional chapters of Mercy Kamupira’s PhD thesis investigates the characteristics of individuals and couples associated with HIV infection status, as well as the desire for children and how this may interact with ongoing HIV prevention efforts. Understanding the ways in which couples communicate about HIV-related topics is at the core of this work, and she includes analyses of how partners communicate about diagnoses of other sexually transmitted infections, as well as the reliability of reporting of sexual behaviours within partnerships. The exploration of these issues generates novel insights into how future HIV prevention effort, may approach couples as a target group for HIV testing and further prevention interventions.

Supervisor: A/Professor L Myer
(Public Health & Family Medicine)

Jennifer Moodley
Thesis Title: Prevention of cervical cancer in South Africa: opportunities and challenges

Jennifer Moodley has obtained her MBChB from the University of Kwazulu-Natal and an M (Med) in Public Health from UCT. Her post graduate training in public health and is an associate of the South African College of Public Health Medicine. She is a senior public health specialist at the Department of Health in the Provincial Government of the Western Cape and a senior researcher at the Women’s Health Research Unit in the School of Public Health and Family Medicine, UCT. She is involved in research, teaching, technical health service support, policy development, and advocacy in the area of women’s health.

Jennifer Moodley’s PhD thesis focuses on cervical cancer, an important cause of morbidity and mortality in developing countries. She examines the challenges and opportunities for comprehensive (primary and secondary) prevention of cervical cancer in South Africa, a middle-income country. Four questions were explored: (a) can a cytology-based based screening program be effectively implemented in South Africa?; (b) what are the potential challenges to and opportunities for implementing a human papillomavirus (HPV) vaccination program in South Africa?; (c) what is the association between human immunodeficiency virus (HIV), HPV, cervical cancer precursors and setting in Cape Town, and that PITC did not negatively affect access to HIV care for the increased numbers who were diagnosed HIV positive. Using a qualitative design, she evaluated the ethical implementation of this HIV testing protocol and found that it met ethical standards. Natalie Leon’s PhD thesis suggests that the extent to which PITC is effective and adheres to ethical standards when implemented in low and middle income countries, may be dependent on how well the intervention can be integrated into standard primary care practices, as well as on broader health systems support mechanisms.

Supervisor: Dr C Mathews (Public Health and Family Medicine and the Medical Research Council of South Africa)
Co-supervisor: Dr S Lewin (Medical Research Council of South Africa and Norwegian Knowledge Centre for the Health Services)
cervical cancer in South Africa, and (d); what is the prevalence of HPV and cervical cancer precursors, HPV types and HPV viral load in women initiating highly active antiretroviral therapy? These questions have local relevance in that the findings will help to shape public health efforts to prevent cervical cancer in South Africa. In addition the findings are of relevance to other middle-income countries contemplating implementing a cervical cancer prevention program.

**Supervisor:** Professor J Myers  
(Public Health and Family Medicine)  
**Co-supervisor:** Associate Professor M Hoffman (Public Health and Family Medicine)

**Katherine Mary Murphy**  
**Thesis Title:** The development and evaluation of a smoking cessation programme for disadvantaged pregnant women in South Africa

Katherine Everett-Murphy has a BA and HDE from UCT and a PG (Dip) in Health Promotion from the University of Galway in Ireland. She undertook her PhD studies while working at the Medical Research Council in the Chronic Disease of Lifestyle Unit. She is now working as a researcher for the Chronic Diseases Initiative in Africa (CDIA) in the Department of Medicine at UCT.

Katherine Murphy’s PhD thesis reports on the development and evaluation of a smoking cessation intervention for disadvantaged, pregnant women attending public sector antenatal clinics. There is strong evidence that smoking cessation interventions for pregnant women can be effective in increasing quit rates, as well as in reducing the incidence of premature birth and low birth weight. However, these interventions have only been studied in developed countries and it was unknown whether such programmes could be successfully applied to a South African setting. Katherine Murphy’s PhD thesis presents the findings of her formative research with health care providers; the process of developing a smoking cessation intervention based on best practice models, but tailored to the unique characteristics of the target group and local setting; and the evaluation of the intervention in four typical public sector antenatal clinics in Cape Town.

The intervention was effective in significantly improving quit rates and was well accepted by clinic staff. Pregnant women rated the provision of social support from the peer counsellors as the most helpful aspect of the programme.

**Supervisor:** Dr C Mathews (Public Health and Family Medicine, UCT and Medical Research Council of South Africa)  
**Co-supervisor:** Professor K Steyn (Medicine, UCT and Chronic Disease of Lifestyle Initiative in Africa (CDIA)

The impact of these types of interventions in primary care settings can translate into significant clinical benefits if they are institutionalised and systematically applied to a large proportion of women at risk. The value of such interventions would be further enhanced if they were extended to also address psychosocial stress, drug and alcohol abuse, as these behaviours are often closely associated with smoking.
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 Statement of Dedication will be read by a representative of the SRC.

Musical Item.

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

The University Creative Works Award.

The honorary graduands will be presented to the Vice-Chancellor by the University orator, Professor A Lewis.

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 the 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 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.

THE CREATIVE WORKS AWARD FOR 2011 IS TO BE AWARDED TO:

Joseph Michael Francis Noero
The Red Location Museum of Struggle

The Museum of Struggle is located in Red Location, New Brighton in the Nelson Mandela Metropolitan Municipality. The area is one of the oldest established Black African urban settlements in South Africa. It was settled in 1902 shortly after the Boer War and the original buildings consisted of recycled barracks from the nearby Uitenhage Concentration Camp which accommodated Boer women and children during the Anglo Boer War.

Red Location has been the home of some of South Africa’s most illustrious people including political leaders such as Govan Mbeki and Raymond Mhlaba as well as important cultural figures such as George Pemba.

In 1994 Govan Mbeki, Raymond Mhlaba, Ernest Malgas and Rory Riordan – all prominent Eastern Cape members of the ANC - undertook to renovate Red Location and to transform the area into a Cultural Precinct for the city of Port Elizabeth and which would include a museum, an art gallery, a library and archive, two theatres, a conference center, a school for the performing and fine arts as well as a large number of low income houses for those people who live there presently.

An architectural competition was mounted in 1997 which was won by Jo Noero Architects. The first building in the complex to be completed was the Red Location Museum of Struggle which was completed in 2006.

The Museum has received many international honors including the Lubetkin Prize from the Royal Institute of British Architects in 2006. Also the building has been exhibited at a number of venues around the world including the Museum of Modern Art in New York City. The Citation for the Lubetkin Prize sums up the value of the building eloquently and the following quote from the judges lays out clearly the special qualities of the building. Speaking about the building, the Lubetkin Prize judges said:"All museums concern memory and history; it was therefore all the more impressive to encounter one in which particular histories and memories have evoked an extraordinarily powerful architectural idea. The ‘memory box’, in which forced migrant workers from the countryside carried artefacts to remind them of home, forms the basis for a building which is in itself one huge memory box. Designed in industrial form – with a saw tooth roof - because trade union activity in factories provided the impetus for the anti-apartheid struggle, the museum houses steel containers which themselves respond to the rusting steel shacks (hence Red Location) which surround the site. The containers are tipped on end to make individual memory boxes, presenting curators with the equivalent of a blank canvas in which to exhibit memories, responses and ideas. The most powerful of these boxes contains police files on those who were murdered, judicially or otherwise, during the struggle. Above the boxes hang three ominous nooses. The building works as both metaphor and object: deliberately unglamorous, this is an architectural tour de force.

This is the most evocative of locations and symbology for a museum of apartheid and its struggles. It is situated in the oldest township in Port Elizabeth where the first act of defiance occurred, when non-white railway workers refused to show their ‘passes’ to enter railway property. To build a museum of the apartheid era in the midst of the township that acted as a crucible for the struggle is an extraordinary achievement. The Red Location Museum brilliantly rises to the challenge, using architectural skill of the highest order to produce an unforgettable experience that is both viscerally and intellectually moving."
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.

High Low In-between
Imraan Coovadia

Robert Brandom
Jeremy Robert Wanderer

HONORARY DEGREES

Stella Virginia Petersen – Doctor of Education
Martin Elgar West – Doctor of Literature

Stella Virginia Petersen – Doctor of Education

Stella Petersen matriculated from Livingstone High School in 1941. She registered at the University of Cape Town where she graduated BSc (1944), MSc in Botany (1945), a Senior Teaching Certificate (1946) and BEd (1948). She obtained an MSc in Education from Syracuse University in New York in 1949.

Returning to the post 1948-era South Africa, Stella Petersen began her teaching career in Uitenhage, followed by a year at Harold Cressy High School, and an appointment to Livingstone High School. In her 38 years as a biology teacher at Livingstone, Stella Petersen came to embody the school’s disciplined approach to learning and its distinctively principled ethos. She was a teacher in the most emblematic way: revered and respected. In retirement she worked for many years (until 2008) as an education officer at Kirstenbosch.

A humanistic teacher who turned her classroom into a space for all kinds of critical and questioning knowledge beyond her subject she was uncompromising in her commitment to standards and a non-racial order. She stood and stands implacably against notions of racial classification and racially-based organisation, championing a future society of principled non-racialism, open and egalitarian, and based on individual merit. This she instilled in generations of her pupils.

Martin Elgar West – Doctor of Literature

Emeritus Professor Martin West retired as a Deputy Vice-Chancellor at the end of 2008. Martin West started his long association with the University of Cape Town as an undergraduate in 1964, and took BA (1966), BA (Hons), MA and PhD (1972) degrees in Social Anthropology at UCT. He was first appointed lecturer in the Department of Social Anthropology in 1971, and was appointed to the chair and Headship in 1978. He served in many leadership capacities in the years that followed (including acting as head of two other departments and as dean of arts and of humanities). He held a chair for 30 years. He was, and remains, a much loved member of the University.

As a Deputy Vice-Chancellor for seventeen years (a record) between 1991 and 2008, Martin West made important contributions in many areas. Just some of these are: to academic leadership; in developing new systems of governance in the student area and in particular in the residences which, during the turbulent early 1990s created the space for black and white students to grow to respect one another; in creating a climate of trust and respect among staff groupings; in revising UCT’s systems of financial aid; and in the establishment (1996) and thereafter the management of USHEPiA (University Science Humanities and Engineering Partnerships in Africa) which brings together a number of African universities in a staff development programme unique in Africa. He served four, distinctly different Vice-Chancellors (one of whom had been his PhD student!).
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 M P Ensor

ADVANCED CERTIFICATE IN EDUCATION
In Adult Education:
Muhammad Okkers
Thembela Benedicta Ncapayi
Joan Elizabeth Stain

PERFORMER’S DIPLOMA IN MUSIC
*Dane Coetzee

PERFORMER’S DIPLOMA IN THEATRE
*Martha Ntombomzi Mlonyeni

POSTGRADUATE CERTIFICATE IN EDUCATION
In Further Education:
*Anushka Daniels

In Senior Phase and Further Education:
Tracey Lynne Barnes
*David Alwyn Edwards
Kiari Els
Duduzile Joyce Mtsweni
*Marijolize Rossouw
*Robyn Shirley Thomas

POSTGRADUATE DIPLOMA IN AFRICAN STUDIES
*Mbulelo Quenston Mswazi
*Sithandiwe Sybil Yeni

POSTGRADUATE DIPLOMA IN ART
*Tracey Anne Derrick

POSTGRADUATE DIPLOMA IN EDUCATION
In Adult Education:
Tanya Janice Mohr

In Educational Administration, Planning and Social Policy:
*Mzoxolo Alfred Welemtsha

In Mathematics Education:
Derek Brian Gripper

POSTGRADUATE DIPLOMA IN MUSIC IN PERFORMANCE
Antoinette Elizabeth Blyth
*John Zachariah Duivelvle Ntsepe

POSTGRADUATE DIPLOMA IN PERFORMANCE
*Naeem Mowzer

2. FACULTY OF ENGINEERING & THE BUILT ENVIRONMENT
Dean: Professor F Petersen

POSTGRADUATE DIPLOMA IN ENGINEERING MANAGEMENT
*Naeem Mowzer

3. FACULTY OF HUMANITIES
Dean: Professor M P Ensor

DEGREE OF BACHELOR OF ARTS
Harold John Anderson
*Chandre Therese Davids
Julia Theresa Duminy
Michael James Duminy
*Tessa Nel Marais Harris
Jade Bianca Howell
Resheditswa Kgomo
Mandy Helan Malloch
Stephen James Peter Miller
Mthawethembu Sindiso Pityana
Violet Mnashadi Sechabala
*Callan Richard Smith
Alix Jane Staniland
Lisa Wallace

DEGREE OF BACHELOR OF ARTS IN FINE ART
Katrin Lorne Dorje
Suzelle Stander

DEGREE OF BACHELOR OF MUSIC
*Natasha Otero

DEGREE OF BACHELOR OF SOCIAL SCIENCE
Sundus Saad Altalib
*Aakira Ameer
*Ackim Banda
*John Austin Charles Chapman
*Rowan Philip Clarke
*Mohamed Mamadou Diatta
*Shakeela Ebrahim
*Barnabe Aristide Eloundou
*Kopano Nkuleko Gumbi
*Kyle Damien Hagues
*Darren Marc Hanekom
*Nina Horstfall
*Nazelle Elriende Jacobs
*Thaikirah Kalam
*Frank Christopher Karigambe
*Bianca Vaneli Kleinsmith
*Mika Klitzner
*Michael John Laws
*Itumeleng Shikwane Lesunyane
*Meng Yu Lu
*Ruvimbo Ethel Mubika
*Augustine Thamsanqa Musewe
*Kudzanai Sipwe Mutendadzamera
*Xhanti-Lomzi Nesi
*Siyabulela Nomthshongwana
*Hanne Nyaboke Nyokangi
*Sheron Radebe
*Nuha Razak
*Tahir Begum Salie
*Yakoub Sirkhoth
*Lauren Kendra Veeckranges
*Emily Vining
*Jonathan St John Widdowson
*Camilla Jane Woods

DEGREE OF BACHELOR OF SOCIAL SCIENCE IN LABOUR, ORGANISATIONAL PSYCHOLOGY AND HUMAN RESOURCE MANAGEMENT
Roselet Thamsanqa Maroleni

In Cultural & Literary Studies:
*Onele Mfeketo
5. FACULTY OF ENGINEERING
& THE BUILT ENVIRONMENT

Dean: Professor F Petersen

DEGREE OF BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES

*Kyle Ian Welsh Rennie
*Bulumko Zitumane

DEGREE OF BACHELOR OF ARCHITECTURAL STUDIES (HONOURS)

Christopher John Bisset
Carey-Anne Brander
Sarah Goosen
Clementine Sarah Hugo-Hamman

DEGREE OF BACHELOR OF SCIENCE IN PROPERTY STUDIES

*James Paul Brownlee
*Matthew Clifford Kelly
*Matthew John Lawrie
Trevor Bongani Sibisi
Damion Stander

6. FACULTY OF SCIENCE

Dean: Professor A le Roex

DEGREE OF BACHELOR OF SCIENCE IN GEOMATICS

Bryan James Hansen
Flhumulani Christopher Takalani
In Botany:
*Niel Burger
(First class) Elsemi Olwage
Janie Swanepoel

In Computer Studies:
*(First class) Henry Mtenoe Msiska

In Statistical Sciences:
*Fulufhelo Kutama

7. FACULTY OF HUMANITIES
Dean: Professor M P Ensor

DEGREE OF BACHELOR OF ARTS (HONOURS)
In Archaeology:
*Nicholas Alexander Zachariou

In Film Studies:
*Inês Sofia Azevedo Pires de Carvalho

In French:
*Julia Matshikiza

In Historical Studies:
*Nicholas Michiel Botha
*Lisa Hazel Duckworth
Kyla Simone Duncan
*Sharifa Hellaby
Gugulethu Mlungisi Hlekwayo
Nicole Yakira Isaacs
Sophy Maria Kohler
Caroline Frances Timoney
Kate Rebecca Williams

In Linguistics:
(First class) Kirsten Leigh Whitfield

In Media Theory and Practice:
*Kelly Doune Berold
Nqubeko Nontsikelelo Hlekwayo

In Philosophy:
*Kirsten Fraser Mackintosh

In Political Communication:
(First class) Garreth Malcolm Bloor

In Social Anthropology:
(First class) Naomi Nandi Marshak

In Workplace Change and Labour Law:
*Ruth Rumbidzai Mupambirei

DEGREE OF BACHELOR OF MUSIC (HONOURS)
In Performance:
Jeanette Claassen
(First class) Olga Rademan
(First class) Nelmari Reyneke

In Archaeology:
*(First class) Christina Gabriele Leitenberger
Lauren Solomon
Guy Robert Musson Thomas

DEGREE OF BACHELOR OF SOCIAL SCIENCE (HONOURS)
In Archaeology:
*(First class) Abigail Kabandula
Tando Tullia Keke

In Diversity Studies:
Abigail Kabandula
Tando Tullia Keke

In Philosophy:
*(First class) Asha Abi Barron
*(First class) Meghan Rose Finn
* Nozzizwe Charlotte Routledge

In Probation and Correctional Practice:
Linda Leonara Ganca
*Fadzai Jayne Matarise
*Busisiwe Abigail Mncube

In Social Anthropology:
(First class) Mona Hakimi
Roy Morrison
*(First class) Matthew John Sharp

In Social Development:
Styavuya Koyana
*Fadzai Jayne Matarise

In Social Policy and Management:
Gugu Lorraine Shabalala
*Wendy Carol Wiemers

In Clinical Psychology:
Joy Pearl Hyde

In Creative Writing:
*Alfred Jacobus Barnard-Naude
*Charles Vincent Human
*(With distinction) Lisa Yael Lazarus
Hendrik Frederick Marthinus Nortje
Yewande Abiola Omotoso
*(With distinction) Michele Ava Rowe-Swinney
Kira Schlesinger
*(With distinction) Sam Wilson

In Drama:
(With distinction) Garth Holmes

In Economics:
*Megan Little

In Environmental and Geographical Studies:
Monene Bore Agnes Mogashoa

In French:
Sylvestre Mekem Douanla
Martha Mzite

In Historical Studies:
(With distinction) Saarah Jappie
Ebrahiem Moos
*(With distinction) Thierry Jean-Marie Rousset

In Language, Literature and Modernity:
Sarah Kim Bonner
Lobke Konigkramer
*Catherine Elizabeth Powell

In Linguistics:
(With distinction) Alida Chevalier
Atikonda Akuzike Mtenje

In Media Studies:
Lee-Roy Chetty
Vuyisile Hlatshwayo
In Media Theory and Practice:
Jin Jeon
*(With distinction) Lauren Anne Pybus
*Gregory Michael Vivian Paitaki

In Political Communication:
Aletta Hendrika Janse van Rensburg

In Political Science:
*Ryan Howe Andersen
*(With distinction) Michelle Romo

In Psychological Research:
Natalie Adams
(Dissertation with distinction) Bjorn Udo Christ
(Dissertation with distinction) Claire Tamsin Corbett
(With distinction) Nadine Michelle Kilchenmann
Malgorzata Lipinska
(Dissertation with distinction) Amy Louise Northam
(With distinction) Alicia Nortje
(With distinction) Michelle Robberts Sizwe Zondo

In Religious Studies:
*(With distinction) Booker Thomas Alston

In Social Anthropology:
*(With distinction) Kate Christine Abney
Kelsey Lynne Draper
Stuart Leon Rothgiesser

In Adult Education:
*(Dissertation with distinction) Rushdien Ebrahim

In Applied Language and Literacy Studies:
*(Dissertation with distinction) Cornelious Binnie Macheng
Nicola Aideen Pietersen

In Education:
Giulietta Domenica Harrison
*(With distinction) Abby MacPhail

DEGREE OF MASTER OF FINE ART
(With distinction) Nina Liebenberg
Natasha Felicity Norman
Lauren Nicole Palte
*Allison Laura Triaaardt

DEGREE OF MASTER OF LIBRARY AND INFORMATION SCIENCE
Trevor Albert Namondwe

By Dissertation:
(With distinction) David Kruger
Jill Petterson
Jasper Jacobus Saayman
(With distinction) Kathryn Jean Thorp

By Performance and Dissertation:
Paula Elize Fourie
*Claudia Mohr
(With distinction) Yu-Chi Wei

DEGREE OF MASTER OF MUSIC

In Information & Communications Technologies in Education:
Gabriel Mwanza
*Christian Leopold Zeininger

In Justice and Transformation:
(With distinction) Sarah Ancas
*Kristin Anderson
*(Dissertation with distinction) Gina-Mari Fourie
(With distinction) Kathryn Leigh Hoeflich
*Carrie Anne Schwartz
*Sarah Louise van Mill

In Politics, Philosophy and Economics:
*Magicino Radebe

In Public Policy:
*Siphumeze Cwayi
*Steven Roger Kenyon

In Public Policy and Administration:
Keneiwe Sheilah Mooketsane
Hazel Nasiphi Moya
*Mariette Theron

In Sociology:
Magdelena Maria Elizabeth Holthausen

DEGREE OF MASTER OF SOCIAL SCIENCE

In Adult Education:
Morea Anthea Joy Josias

In African Studies:
*(With distinction) Jessica Joy Dutton

In Curriculum Studies:
(With distinction) Gonda Karen Coetzee

In Development Studies:
*(Dissertation with distinction) Valerie-Claire Anderson
*Shotaro Togawa

In Educational Administration, Planning & Social Policy:
(Dissertation with distinction) Eleanor Virginia de Cerff
Xolisa Wendy Guzula

In International Relations:
Priya Harry
*Ryan Bruce Lobban
(With distinction) Nonpumelelo Motlafi
*Justin Pentenrieder
Mosa Barbra Setlaba

In Gender Studies:
*Augustin Kimonyo
8. FACULTY OF SCIENCE

DEGREE OF MASTER OF PHILOSOPHY

In Archaeology:
*(With distinction) Malia Johnson
*Frans Jacobus Kruger

In Molecular & Cell Biology:
Ian Kyle Kemp
Jarrod Williams Lyons
(With distinction) Julia Sfarlea
Darren Edward Stegmann
*Busisiwe Twala

In Physics:
*(With distinction) Angus Craig Comrie
*Maisson Mohamed Zeinelabden Hassan
Sean Hamilton Thomas Murray
Cornelia van der Walt

In Theoretical Physics:
*Preshin Moodley
*(With distinction) Fhumulani Nemulodi

In Zoology:
Clement Jade Arendse
*Jonathan Aronson
Rachel Cooper
*Jock Carlisle Currie
*Kathryn Alexandra Jolly
Stacey Leigh Jordaan
Gregory Lilgee Mutumi
*Laura Tang
Alicia Jessica Thomas

DEGREE OF MASTER OF SCIENCE

In Applied Marine Science (Zoology):
*(With distinction) Lauren Biermann

In Information Technology:
*Gregory Earle Doyle
*Kevindhren Gounden
*Hubert Tangee Nashenda
Marius Francois Niel
Kathryn Michele van Niekerk
In Disaster Risk Science:
Francis-Jean Solomon

In Environmental Management:
*James Armstrong
Amber Leah Jackson
Sivile Abednigo Mgese
Natalie Elizabeth Matthews Schell

In Geomatics:
Rebecca Ismay Tyler

In Urban Infrastructure,
Design and Management
Elmari Marais

In Geomatics:
Johan Neilson Louw

In Materials Engineering:
Gerard Malefane Leteba

In Mechanical Engineering:
Jordan Lee Adams
Richard Johnathan Curry
Steven Michael Jaffa
Marlan Perumal

In Transport Studies:
*Wilson Kasyoki Mutiso

In Chemical Engineering:
Olubode Caleb Adetunji
*Jacques Collin Bezuidenhout
Lucinda Valerie Bromfield
Rebecca Angela Chiume
Adrian Christopher de Beer
Nobert Paradza
Mpho Ramonotsi
Cornelia Ras
*Kateula Sichalwe
Lara Anne Truter

In Education Management:
*Teresia Jeanette Arendse

In Electrical Engineering:
Richard Banda
*Marius Bensch
Jean-Paul Costa da Conceicao
Thabo Adolph Koetje
Francis Mphakiseng Masuabi
Tinotenda Leslie Mundangepfupfu
*Kushwant Mussai
Joyce Bertha Mwangama
Chipo Nancy Ngongoni
Makhmisa Cletus Senekane
*Nicholas James Thorne
*Jonathan Michael Ward

In Transport Studies:
Cavell Lebohang Chiloane
Liezl du Plooy
Bhekuyise Henry Makedama
*Kevin Paul Sykes

In Engineering Management:
Pascal Johannes van Dijk

In Materials Engineering:
Gerard Malefane Leteba

In Mechanical Engineering:
Jordan Lee Adams
Richard Johnathan Curry
Steven Michael Jaffa
Marlan Perumal

In Transport Studies:
*Wilson Kasyoki Mutiso

In Electrical Engineering:
Richard Banda
*Marius Bensch
Jean-Paul Costa da Conceicao
Thabo Adolph Koetje
Francis Mphakiseng Masuabi
Tinotenda Leslie Mundangepfupfu
*Kushwant Mussai
Joyce Bertha Mwangama
Chipo Nancy Ngongoni
Makhmisa Cletus Senekane
*Nicholas James Thorne
*Jonathan Michael Ward

In Transport Studies:
Cavell Lebohang Chiloane
Liezl du Plooy
Bhekuyise Henry Makedama
*Kevin Paul Sykes

In Engineering Management:
Pascal Johannes van Dijk

9. FACULTY OF ENGINEERING & THE BUILT ENVIRONMENT

Dean: Professor F Petersen

DEGREE OF MASTER OF SCIENCE
IN PROJECT MANAGEMENT

*Chitambala John Sikazwe

DEGREE OF MASTER OF SCIENCE
IN PROPERTY STUDIES

Douwe Donovan Bijker
*Craig John Hall

DEGREE OF MASTER OF CITY
AND REGIONAL PLANNING

Luthando Mlamleli Malgas
Ignatius Tadzidza Matanyaire
Thato Mokobane

DEGREE OF MASTER OF PHILOSOPHY
IN TRANSPORT STUDIES

Khibi Ruth Mabuse-Manana
Loritar Luckystar Maunganidza

DEGREE OF MASTER OF PHILOSOPHY

In Architecture & Planning:
*Astrid Ursula von Brucken-Gluck

In Development Management:

In Conservation of the Built Environment:
Sjanel Christine Buchel
Cecilia Jeanette de Bruyn
Michael John Scurr

In Energy Studies:
Jesse Alexandra Sarah Burton
*Kudakwashe Stephen Nyatsanza
Title: Structural conditioning and behaviour and performance in mineral flotation systems

Sameer Morar obtained a BSc (Eng) degree in Chemical Engineering from UCT, and has been engaged in research at the Centre for Minerals Research towards his PhD since 2004. In this time, he played an active role in both the development of machine vision technology, and the application of the technology in industrial operations in South Africa, Europe, Australia and North America.

Sameer Morar’s PhD thesis evaluates the use of machine vision for the on-line management of the performance of the froth phase of industrial-scale mineral flotation cells. He develops a number of novel image analysis procedures that, when applied to sequences of images of the froth surface, can be used to infer the performance characteristics of the system, and provide a decision framework for corrective action within an automatic control system. The outcomes of the research are patented, and will be incorporated into a froth management system developed at the University of Cape Town, UCT SmartFroth.

Supervisor: Professor D Bradshaw
(Professor D Bradshaw)

In Chemical Engineering: Sameer Harish Morar
Thesis Title: **The use of machine vision to describe and evaluate froth phase behaviour and performance in mineral flotation systems**

In Electrical Engineering: Tembalethu Jama Ndwe
Thesis Title: **Usability engineering of interactive voice response (IVR) systems in oral users of southern Africa.**

Tembalethu Ndwe was born in the Eastern Cape and obtained his BSc degree in Computer Engineering from the Wentworth Institute of Technology, USA and his MSc degree in Computer Science from Rhodes University.

Tembalethu Ndwe’s PhD thesis focuses on the usability and engineering of interactive voice response (IVR) systems for oral users in southern Africa. It is based on an understanding that, in an increasingly information, communication and technology-dependent world, there is an urgent need to address problems in the adoption of technology by the large majority of people in the southern African region, who have never been exposed to contemporary ICT tools such as multi-purpose computers.

Tembalethu Ndwe’s PhD thesis shows how technology that has been designed elsewhere in the developed world becomes unusable in the hands of technology illiterate users when they are faced with a user interface that is incoherent with their mental models. Tembalethu Ndwe’s PhD thesis addresses this incoherence and advocates technology design methodologies that address the socio-cultural norms and apparently unconventional conventions of the people in the southern African region. This aim of his work has been to make technology usable, efficient, effective and satisfactory for its intended users. The primary goal of Tembalethu Ndwe’s PhD thesis is to reduce the information divide that exists between information haves and have-nots in the region which, if left alone, will foster new forms of social injustices.

Supervisor: A/Professor ME Dlodlo (Electrical Engineering)
Co-supervisors: Professor E Barnard (North West University and Meraka Institute, CSIR)
A/Professor D Mashao (SITA, Pretoria)

In Engineering Management: Keith Ivor Jacobs
Thesis Title: **A new product development practices model for small and medium engineering enterprises**

Keith Jacobs matriculated from Spes Bona High School. He holds the NT4 from Peninsula Technikon, a National Higher Diploma for Post School Education, a B (Ed) from the University of Western Cape, an Honours and Masters degrees in Business Administration. Keith Jacobs is currently the Associate Dean in the Engineering Faculty at Cape Peninsula University of Technology and registered as a PhD student at UCT in 2006.

Keith Jacobs’ PhD thesis develops and then applies a model that describes the fundamental practices required for the sustainability of SMEEs (Small and Medium Enterprise Enterprises) embarking on Innovation and the development of new products. The model, based on an extensive literature survey and an initial individual case study of 6 SMEEs in the Western Cape, is used in Keith Jacobs’ PhD thesis.
as an instrument for data acquisition from 18 individual case studies of SMEEs in the manufacturing sector. Through interviews, answers to a comprehensive questionnaire and observational data gathered by the candidate whilst visiting these SMEEs companies, he is able to classify them according to their potential for sustainability. The validation of the model was effected three years later, when these companies were re-visited and a new set of data was obtained regarding their “health” or growth. Through recognizing a “growth factor” and the particular reasons for it in various circumstances, Keith Jacobs has demonstrated that a comparison is possible of SMEEs’ predicted sustainability potential with how they perform in the market.

Supervisor: Emeritus Professor J Gryzagaridis (Mechanical Engineering)

In Mechanical Engineering:
Thorsten Hermann Becker
Thesis Title: Understanding and modelling damage and fracture in nuclear grade graphite

Thorsten Becker is from Namibia and studied Mechanical Engineering at UCT obtaining his BSc (Eng) degree with distinction in 2005. He enrolled for a Masters degree in 2007 and based on exceptional progress, upgraded to a PhD in early 2009. As part of his PhD research he spent a year at the University of Manchester, returning to UCT in late 2010.

Bulk nuclear graphite is used as an insulator and moderator in high-temperature gas-cooled nuclear reactors, because of its long term ability to sustain high-temperature and as a liner to protect the steel nuclear pressure vessel from creep and radiation degradation. Thus the structural integrity of nuclear graphite is fundamental to safe operation and performance of the plant. Thorsten Becker’s PhD thesis focuses on two grades of nuclear graphite and their fatigue and crack growth characteristics. He uses, in particular, the double torsion (DT) fracture technique, which facilitates controlled slow crack growth in such highly brittle material, and also develops a unique experimental-numerical methodology for the calculation of the J-integral from a Digital Image Correlation measured displacement field in cracked test specimens. Using this, he reports extensive micro-cracking in fracture process zones near the main crack tip, which contributes over 50% of the energy dissipation and fracture resistance of the material. A crack wake size effect has been established, and when non-local damage plasticity was accommodated a reliable fracture model was developed which could be used to predict crack growth and fracture behaviour for a range of specimen types, unifying previous disparate literature-based nuclear graphite fracture toughness values.

Supervisor: Professor RB Tait (Mechanical Engineering)
Co-supervisor: Professor J Marrow (Oxford University)

10. FACULTY OF SCIENCE

Dean: Professor A le Roex

DEGREE OF DOCTOR
OF PHILOSOPHY

In Applied Mathematics:
Farai Julius Mhlanga
Thesis Title: Computation of Greeks using Malliavin calculus

Farai Mhlanga was educated in Zimbabwe where he obtained an MSc degree in Mathematics and then registered for his doctoral studies at the UCT, in the field of Mathematical Finance.

An important aspect of Mathematical Finance is the pricing of stocks and other assets. Mathematical techniques using Stochastic Differential Equations were developed in the 1970’s that led to a breakthrough in the field and enabled the provision of insurance against loss and the provision of a degree of certainty in financial transactions that was unavailable previously. The pricing of assets changes as initial prices, volatility, interest rates and time to maturity change, and there are important other quantities which have an influence on prices. To guard against loss it is essential to know precisely how prices change as these quantities vary. Unfortunately, stochastic and other complexities make this difficult to do. A method of calculation known as the Malliavin Calculus has been used in many papers to provide methods for such calculation. Farai Mhlanga’s PhD thesis provides a comprehensive outline of the relevant portions of the calculus and its applications to finance, as well as of several important extensions, and uses it to obtain new results which will assist in this much-used analysis.

Supervisor: Professor RJ Becker (Mathematics and Applied Mathematics)

In Archaeology:
*Karen Loise van Niekerk
Thesis Title: Marine fish exploitation during the Middle and Later Stone Age of South Africa

Karen van Niekerk obtained her BSc (Hons) degree in Archaeology from UCT and subsequently her Masters from the University of Bergen in Norway. She then returned to UCT for her PhD. During this time she has contributed to several major research projects on the archaeology of the Middle Stone Age.

The question of when people first began to fish is significant. Some researchers believe that the human brain evolved to its present level of complexity only about 50 000 years ago. They argue that the supposed lack of fish, among other items, in sites pre-dating 50 000 years ago is evidence that earlier people were less able to extract food from their environment. On the basis of recently excavated material, as well as re-examination of older collections, Karen van Niekerk shows that, contrary to previous understanding, ancient people as far back as ca. 100 000 years ago sometimes caught large marine fish, though they did not fish as intensively as Khoesan coastal dwellers in the last 10 000 years. Karen van Niekerk’s PhD thesis documents the oldest sea fishing in the world and by implication, the early development of advanced technological and cognitive skills. This adds to a mounting body of evidence that sophisticated human behaviour has deeper, more ancient roots than previously realised. Most of the evidence for this currently comes from South Africa.

Supervisor: Professor J Sealy (Archaeology)
In Astronomy:
Mellony Spark
Thesis Title: Exploring the application of new telescope technologies in the testing of dwarf nova accretion models

Mellony Spark, born in Johannesburg, was schooled and raised in Mafikeng in what was then Bophuthatswana homeland. She obtained her undergraduate degree with distinctions in Mathematics and Physics at Rhodes University before going on to complete the BSc (Hons) degree under the National Astrophysics Space Science Program (NASSP) at UCT. Thereafter she completed the NASSP MSc coursework component before upgrading to a PhD in Astronomy.

Mellony Spark’s PhD thesis investigates the application of new telescope technologies to researching the accretion in cataclysmic variables, which are binary star systems in which the component stars are so close that gas is transferred from one to the other. One of the technologies was the upgrade of a small telescope so that it could be operated remotely. Traditionally, telescopes have always had to have human operators in close proximity. In this case, the science required observations only every few days so that remote operation would enable a large data set to be collected without nightly sampling. In collaboration with the Instrumentation Division at SAAO, Mellony Spark managed the upgrade of the SAAO 0.75 m telescope for remote operation, requiring control over the internet of all the usual basic telescope functionality as well as its imaging camera. She then used the telescope to obtain time series brightness measurements of two cataclysmic variable systems during eclipse.

Another telescope technology was the usage of the high speed imaging capability of SALT, the Southern African Large Telescope. Telescopes of this kind rarely have high speed imaging cameras attached. With SALTIMAC, Mellony Spark was able to obtain very high time resolution observations of a cataclysmic variable, with very high signal-to-noise, to investigate how the transferred gas found its way down on to the accepting star. The SALT data led to a surprising result: the standard picture of how gas accretes on to the recipient star was called into question, with none of the current models able to explain the large range of behaviour seen in the brightness measurements made during eclipse of the receiving star by the donor star.

Supervisors: A/Professor PA Woudt (Astronomy)
Co-supervisor: Dr D O’Donoghue (South African Astronomical Observatory)

*Abiy Tekola
Thesis Title: On evolution of star forming galaxies: the metallicity of dwarfs and the effect of environment on local luminous IR galaxies

Abiy Tekola was born and raised in the outskirts of a small town called Debrezeit, 50 km from Addis Ababa, the capital city of Ethiopia. He obtained his BSc degree in Physics from Alemaya University in Ethiopia. After working as a graduate assistant for one year, he joined the National Astrophysics and Space Science (NASSP) programme at UCT and completed his BSc (Hons) and MSc degree before starting his PhD studies.

Abiy Tekola’s PhD thesis investigates the influence of galaxy environment on the star formation property of a special class of infrared (IR) galaxies called LIRGs, luminous infrared galaxies. He quantified their environment in terms of two different measurements: the number count of galaxies in their vicinity, and the mass of the surrounding dark matter halo. Using number counts as a density indicator, he found that there is a remarkable environmental difference between LIRGs and IR galaxies whose star formation rate is lower than that of LIRGs. He also found that the star formation rate of LIRGs increases monotonically with their environment. He concluded that local LIRGs exhibit a similar star formation-density relationship with that found in many studies of high redshift star-forming galaxies and suggested that local luminous LIRGs could be a remnant of a process that transformed distant high redshift star-forming galaxies into the present day gas-poor and quiescent galaxies. He also studied a small spectroscopic data-set of dwarf star-forming galaxies acquired with the Southern African Large Telescope with the main objective of understanding their chemical evolution. He determined various physical quantities of the galaxies, such as oxygen abundances, temperatures and extinction parameters. This study is considered as a pilot project for a future spectroscopic survey of star-forming galaxies using the Southern African Large Telescope, and the results were found to be very encouraging.

Supervisors: A/Professor PA Woudt (Astronomy),
Co-supervisors: Dr P Vaisanen (South African Astronomical Observatory),
Dr A Kniazev (South African Astronomical Observatory),
A/Professor A Berlind (Vanderbilt University)

In Botany:
Thembinkosi Steven Dlaza
Thesis Title: Development in culture, ecophysiology and nutritional content of three South African Porphyra (Rhodophyta, Bangiales) species

Thembinkosi Dlaza studied at the University of the Western Cape from 1998 to 2005, obtaining BSc, BSc (Hons) and MSc degrees. He has been studying at UCT in the Department of Botany, since 2006. During this time he co-authored several publications and conference presentations.

Thembinkosi Dlaza’s PhD thesis examines the biology of three common South African Porphyra species with respect to their possible cultivation. The genus Porphyra is commercially valuable for production of nori and potentially valuable in South Africa as feed for farmed abalone. From studies of natural populations Thembinkosi Dlaza shows that gametophytes are present year-round in two of the species, but absent in winter in the third. Spore release is affected quantitatively by temperature, salinity and irradiance. Culture studies of the conchocelis phases (described for the first time in two of the species) illustrate quantitative effects of irradiance, photoperiod and temperature, with some differences between species. Gametophytes are analysed seasonally for macro-elements, micro-elements and crude and soluble protein. All three species show relatively high nutritional values and nutritionally safe levels of potentially toxic elements such as heavy metals. Four apparently undescribed Porphyra species were found in the course of the study and are provisionally described. All three species have potential for cultivation, and
this study provides the information for selecting species and conditions in order to take such cultivation to pilot commercial level.

**Supervisor:** Professor JJ Bolton (Botany)  
**Co-supervisor:** Honorary A/Professor RJ Anderson (Botany)

**Diina Shuuluka**  
**Thesis Title:** Ecophysiological studies of three South African Ulva species from integrated seaweed/abalone aquaculture and natural populations

Diina Shuuluka is Namibian and studied at the University of Namibia in Windhoek. She obtained an MSc in 2005 on microalgal biotechnology in the Department of Chemistry (UNAM), co-supervised by scientists from Ben Gurion University of the Negev in Israel. She came to UCT seconded from a post at the Sam Nujoma Coastal Resources Centre of UNAM in Henties Bay, where she works as an aquaculture scientist.

Diina Shuuluka’s PhD thesis examines the ecophysiology of species of the green seaweed Ulva (the ‘sea lettuce’). Over a thousand tonnes are grown annually on South African abalone farms as feed for the animals and to carry out bioremediation (nutrient removal) of aquaculture effluent. Two species grown in commercial aquaculture are compared with similar species growing in natural populations. The study encompasses a wide range of topics including commercial production and its optimization, effects of a variety of environmental conditions on photosynthesis and growth in the laboratory, factors controlling seasonal patterns of commercially important components (protein and amino acids, nutrients, carotenoids, minerals, heavy metals), and disease. Recommendations from Diina Shuuluka’s PhD thesis have already assisted in the management of seaweed production on local abalone farms, and her study has made a significant scientific contribution to the sustainable aquaculture of seaweeds in land-based integrated multi-trophic aquaculture (IMTA) systems.

**Supervisor:** Professor JJ Bolton (Botany)  
**Co-supervisor:** Honorary A/Professor RJ Anderson (Botany)

**Jasper Alexander Slingsby**  
**Thesis Title:** Ecological differentiation and the evolution and maintenance of fynbos diversity

Jasper Slingsby obtained a BSc in Botany and Zoology and a BSc (Hons) in Ecology and Evolutionary Biology from UCT. After a brief stint as a research assistant in the Neotropics, he then commenced work towards a PhD in mid-2006. Alongside his doctoral research, he has been involved in a number of research projects.

Jasper Slingsby’s PhD thesis tests existing methods and develops new methods relating to the use of evolutionary history and functional trait data in exploring the processes that influence the genesis and maintenance of biological diversity. Focussing on a diverse genus of plants (Tettraria), he uses these methods to test the relative importance of geographical isolation and ecological niche differentiation in the genesis and maintenance of floristic diversity in the Cape Floristic Region, one of 30 global biodiversity hotspots. His research identifies an important role for ecology, indicating that niche space is finite, with ecological saturation setting limits on lineage diversification. The finding that genetic divergence typically occurs in geographic isolation, while morphological and ecological divergence occurs only when lineages come back into contact, provides key insights into the processes that are involved. More generally, Jasper Slingsby’s PhD thesis provides valuable insights into processes determining the diversity of biological assemblages, a sound understanding of which is critical for the development of effective conservation and management strategies.

**Supervisors:** Dr GA Verboom (Botany)  
**Co-supervisors:** A/Professor MD Cramer (Botany)  
**Professor JJ Midgley (Botany)**

In Chemistry:

*Eric Muriithi Guantai**  
**Thesis Title:** Curcumin-related hybrid compounds as potential antimalarial agents: design, synthesis, mechanistic investigations, biological evaluation and pharmacokinetic studies

Eric Guantai holds a B (Pharm) degree from the University of Nairobi in Kenya. He worked for the Ministry of Health in Kenya before returning to the University of Nairobi as an academic member of staff. In 2006 he joined UCT for his post-graduate studies.

Eric Guantai’s PhD research was a multidisciplinary project comprising of computational and medicinal chemistry and pharmacology, all focused on developing and optimising novel molecules active against the human malaria parasite. Briefly, the first phase of his research involved the rational design, synthesis and in vitro antiplasmodial testing of potential antimalarial hybrid compounds that contained structural elements of the natural product curcumin. The second phase involved the application of in silico (computational) tools to guide the design of optimised analogs of the most promising compounds identified from the first phase of the study, and the subsequent synthesis and in vitro antiplasmodial testing of these analogs. The final phase of the study involved in-depth pharmacology studies that shed light on the pharmacokinetics, metabolism, in vivo antimalarial activity and possible mechanisms of action of the most promising compounds obtained from the two preceding phases of the study.

**Supervisor:** Professor K Chibale  
**Co-supervisor:** A/Professor PJ Smith (Chemistry)  
**A/Professor K Chibale**

**Halima Samsodien**  
**Thesis Title:** Supramolecular derivatives of selected bioactive compounds: a physicochemical study

Halima Samsodien obtained B (Pharm) and M (Pharm) degrees from the University of the Western Cape. Since 2004 she studied at UCT as a student in the Centre for Supramolecular Chemistry Research in the Department of Chemistry. During this time she worked as a full-time lecturer and researcher at UWC while completing her PhD thesis.

Halima Samsodien’s PhD thesis gives an account of her systematic conversion of selected drugs into various solid forms, namely polymorphs, solvates, co-crystals and cyclodextrin inclusion complexes to establish whether these forms might present any pharmaceutical or technological advantages over the untreated drugs. Her study involved isolation and complete physicochemical characterization of the modified forms, including quantitative assessment of their
in vitro aqueous solubility in relation to the untreated drugs. Two anti-tumoral drugs and the antiretroviral Nevirapine were selected for investigation. Highlights of the study on the anti-tumors included the first successful X-ray structural elucidation of cyclodextrin inclusion complexes of a steroid and the finding that derived solid forms of this drug display significantly improved solubility profiles relative to the untreated material. Nevirapine was investigated primarily for its potential to form ‘pharmaceutical co-crystals’ through ‘engineered’ hydrogen bonding with biocompatible partner molecules. Two co-crystals of Nevirapine were found to have significantly higher dissolution rates, than the commercially available drug.

Supervisor: Professor MR Caira
(Chemistry)
Co-supervisor: Professor SA Bourne
(Chemistry)

In Computer Science:
Andrew James Maunder
Thesis Title: Designing appropriate interactive systems for the developing world

Andrew Maunder was born and raised in Cape Town, South Africa and completed his BSc in Applied Computing at UCT in 2003. He then began his post graduate studies with a BSc (Hons) in Information Technology, in which he was awarded the class medal.

Andrew Maunder’s PhD thesis explores the process of designing appropriate information communication technologies for developing world communities. In it he describes the design of two cellular phone-based interactive systems, both of which aim to provide a locally appropriate interface to a multimedia information system. The first system, dubbed MuTI Mobile, utilises multimedia messaging to enable new, collaborative medical processes between a rural hospital and remote clinic, whereas the second system, dubbed SnapAndGrab, enables playful interactions and sharing of multimedia within a work environment.

His design work reveal that current interaction design methods, tools and techniques provide little assistance when designing such systems, especially when considering that the major design problems stem from complex socio-cultural and value related issues. Andrew Maunder’s work addresses these shortcomings by presenting a new design strategy that focuses on ubiquitous artefacts, abstract scenarios, local accessibility and progressive participation. The new strategy resulted in the innovative SnapAndGrab prototype that probes a community’s local perspective of a technology through real, first hand experiences and a novel evaluative technique. The evaluative findings suggest that the SnapAndGrab system shows promising signs of being a highly appropriate interactive technology for developing world users who do not have access to a PC or the Internet, but still want to access rich, multimedia content such as photographs, music and videos.

Supervisor: A/Professor G Marsden
(Computer Science)

Ian William Tunbridge
Thesis Title: Graphics processing unit accelerated coarse-grained protein-protein docking

Ian Tunbridge obtained a BSc (Hons) degree in Computer Science from UCT in 2006. He began his postgraduate studies with an MSc degree, which was upgraded to a PhD in 2010.

Ian Tunbridge’s PhD thesis investigates whether Graphics Processing Units (GPUs), which are designed to accelerate graphics for computer games, can be used to speed up molecular simulations. He migrated a coarse-grained model for protein docking simulations with the Replica Exchange Monte-Carlo (REMC) method onto a GPU architecture. This first implementation of REMC docking on a GPU was a complex process, involving careful analyses of the effects of various approaches and optimizations on the algorithmic efficiency. Through detailed benchmarking and profiling, Ian Tunbridge demonstrated that his highly parallel implementation vastly increases the size- and time-scales accessible to molecular simulation, with remarkable increases in speed of up to 1400 times for large protein molecules. He then demonstrated the utility of his implementation on two model problems: an investigation of the effects of macromolecular crowding on protein binding and an initial foray into simulation of viral capsid assembly. These simulations, which would have previously required months or years of simulation time, were performed in weeks using his GPU implementation. This means that simulations of greater complexity and realism are now possible.

Supervisor: Dr M Kuttel
(Computer Science)
Co-supervisors: A/Professor J Gain
(Computer Science)
Dr R Best (Cambridge University)

In Environmental & Geographical Science:
Sepo Promise Hachigonta
Thesis Title: Assessing maize water requirements in the context of climate change uncertainties over southern Africa

Sepo Hachigonta has a BSc degree from the University of Zambia and an MSc degree from UCT. He has been studying at UCT, in the Environmental and Geographical Science, since 2003. During this time, he has contributed and helped to manage a number of research projects and departmental activities while working on his PhD thesis.

Sepo Hachigonta’s PhD thesis investigates the challenges of using statistical downscaled climate data to examine the likely impacts of climate change on maize growth in southern Africa in the context of uncertainties. Using multiple data sets and models, he finds that the maize water requirement index simulations across the climate models are more consistent in projecting future changes than the rainfall totals. This suggests that consistent responses in future changes may be better detected in crop model outputs as opposed to changes in seasonal or monthly rainfall characteristics. In order to develop adaptation options, he uses a new sensitivity approach that investigates the contribution of sowing decisions to the variation in the maize water requirement index. He finds that the expected rainfall in the first sowing dekad is the most significant factor to the yield variation in most regions over southern Africa, and as such is an important component of future adaptation in maize growth. This study has highlighted that real-time decision-making strategies can form an effective and robust method of coping and adapting to climate change and variability.

Supervisor: Professor B Hewitson
(Environmental and Geographical Science)
Co-supervisor: Dr M. Tadross
(Environmental and Geographical Science)
In Geology:
*Maha Atallah Altarawneh
Thesis Title: Structural setting of the Jordan Northern Highlands: an integrated study using surface and subsurface geological data by utilizing GIS technology

Maha Altarawneh obtained her BSc degree in Geology from Jordan University, Jordan, and an MSc in Applied Remote Sensing from University of Cranfield, England. She has since been working as a GIS and Remote Sensing specialist in various projects for the Jordanian Government, as well as with several national and international companies in the fields of water, security, geology, environment, and utilities.

Maha Altarawneh’s PhD thesis investigates the structural style of the Jordan Northern Highland area, which represents one of the key geological provinces for understanding the influence of Arabian Plate motion and thus compression and extensional tectonics along the Dead Sea Transform in Jordan. The Jordan Northern Highlands area has, for many decades, been the target of attention by a number of researchers, as well as oil companies, given its distinctive geological setting. However, integration of different datasets, both surface and sub-surface, and associated analysis using modern technology such as Geographic Information Systems (GIS) to better understand the structural setting and evolution had not yet been applied. Maha Altarawneh’s PhD thesis highlights the unique structural location of the study area, and the importance of a number of significant tectonic elements; Rutba Uplift from the east, Palmyrides and Golan Heights from the northwest, Jordan Uplift from the west. It also shows that the Dead Sea Transform has direct control on the structural setting of the Jordan Northern highlands. The tectonic evolution of the Jordan Northern Highlands is discussed within the context of the abovementioned tectonic elements.

Supervisor: Professor A le Roex
(Geological Sciences)
Co-supervisor: Professor Z Ben-Avraham
(Geological Sciences)

In Molecular & Cell Biology:
*Bronwen Cross
Thesis Title: Cloning and molecular characterisation of four alginate lyase genes from vibrio midae SY9, an enteric bacterium of the abalone halioysis midae

Bronwen Cross obtained a BSc degree with distinction, majoring in Microbiology and Biochemistry, and a BSc (Hons) in Molecular and Cell Biology from UCT.

Bronwen Cross’ PhD thesis characterised the alginate lyases produced by Vibrio midae SY9 in order to determine whether the enzymes play a role in increasing the growth rate of farmed abalone fed a diet supplemented with this bacterium. Four alginate lyase genes were cloned from V. midae SY9 and sequenced. Two of the alginate lyases were successfully purified and used to raise polyclonal antibodies. Expression of the alginate lyases was examined at the transcriptional level, at the level of translation. mRNA transcripts of the four genes were not regulated by the presence of glucose in the culture medium, and neither were the intracellular protein levels of the enzymes. However, enzyme activity was only detected when reducing sugar levels of the culture media were low, suggesting that the V. midae SY9 alginate lyase genes are regulated post-translationally. Transmission electron microscopy using gold-labeled polyclonal antibodies revealed that two of the alginate lyases are located in the cytoplasm and periplasm of the bacterium.

Supervisor: A/Professor V Coyne
(Molecular and Cell Biology)

Zekarias Gebremedhin Ginbot
Thesis Title: Characterization of two, desiccation linked, group I LEA proteins from the resurrection plant xerophyta humilis

Zekarias Ginbot is an Eritrean citizen and did his BSc degree at the University of Asmara, Eritrea. He completed an MSc at UCT in 2002, thereafter returning to Eritrea to take up a post of lecturer at Asmara University. In 2007 he returned to UCT to undertake research for the PhD degree.

Zekarias Ginbot’s PhD thesis involved the production, characterization and determination of the function of two Late Embryogenesis abundant (LEA) proteins isolated from the resurrection plant Xerophyta humilis. While it is known that LEA proteins are expressed in plant tissues in response to abiotic stresses such as water deficit stress (drought), the role they play in planta is unknown. This is a consequence of the fact that they are mostly low complexity proteins that are unfolded in aqueous solutions making it experimentally difficult to assign a structure and determine function. In his PhD thesis, Zekarias Ginbot determined that these proteins have the biochemical characteristics of LEA proteins. He demonstrated that they are expressed in root and leaf tissues in response to severe water loss in X. humilis and are present in desiccated seeds of this species. In Cambridge in the laboratory
of Dr Alan Tunnacliffe, he ascertained that they did not function as chaperonins or molecular shields (a predicted role of some LEA proteins). Immunocyto location showed the proteins to be located to the region of the plasma membrane and he hypothesized that the proteins play a role in stabilization of this membrane in the dry plant.

**Supervisor:** Professor JM Farrant (Molecular and Cell Biology)
**Co-supervisor:** Professor N Illing (Molecular and Cell Biology)

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Gaston Kuzamunu Mazandu

**Thesis Title:** Data integration for the analysis of uncharacterised proteins in *mycobacterium tuberculosis*

Gaston Mazandu obtained an undergraduate and Honours degrees with distinctions in Mathematics with a focus on Computer Science from the University of Kinshasa. He obtained a PG (Dip) in Applied Mathematics from the African Institute for Mathematical Sciences in Muizenberg, which was obtained with distinction. Thereafter, he completed a Masters degree in Applied Mathematics and Computer Science at the University of Stellenbosch, before joining the Computational Biology Group at UCT to undertake his PhD degree in Bioinformatics in the field of microbial pathogens and infectious diseases.

Gaston Mazandu’s PhD thesis aims to integrate different functional genomics data to generate a protein-protein functional interaction network for all proteins in *Mycobacterium tuberculosis*. This was done to study the general properties of the network, identify potentially interesting proteins, and to try to predict functions for the large number of uncharacterized proteins. Many of these proteins are of unknown functions and are unique to *Mycobacterium tuberculosis* or the mycobacteria, which makes characterization through homology, unlikely. Through this project, Gaston Mazandu developed a number of novel algorithms for integrating and analyzing data, and from the resulting network, he was able to predict functions for a large number of uncharacterized proteins and to identify a set of 800 proteins that are key components of the biological system of this organism, thus presenting attractive candidates as drug targets.

**Supervisor:** A/Professor N Mulder (Infectious Disease and Molecular Medicine)

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In Statistical Sciences:

Ian Noel Durbach

**Thesis Title:** Simplified models for multi-criteria decision analysis under uncertainty

Ian Durbach completed a B (Bus) (Sc) in quantitative management at UCT in 2000, and an M (Bus) (Sc) in operational research, also at UCT, in 2003. After working briefly in the marketing industry, he rejoined UCT as a lecturer in the Department of Statistical Sciences in 2005 and began PhD studies shortly thereafter.

Ian Durbach’s PhD thesis examines the problem of dealing with substantial uncertainties in providing decision support for multicriteria problems. Many reported approaches in effect ignore uncertainties (apart from sensitivity analysis), while formal models for integrating uncertainty and risk modelling are demanding both cognitively and in terms of data needs. There is therefore a critical need for providing decision support procedures which facilitate a comprehensive analysis of the effects of uncertainties, but by use of simplified models which are more realistic in terms of cognitive and data demands. Ian Durbach’s PhD thesis a number of such simplified approaches are identified and their performance evaluated using three different methodological approaches, namely computer simulation, empirical choice experiments with human subjects and real-world applications of decision analysis (case studies). A number of conclusions are derived regarding the future design of decision support systems for multicriteria decision making under uncertainty and risk.

**Supervisor:** Emeritus Professor T J Stewart (Statistical Sciences)

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In Zoology:

Justine Braby

**Thesis Title:** The biology and conservation of the damara tern in Namibia

Justine Braby grew up in the Skeleton Coast Park of northern Namibia where her passion for African conservation first grew. She graduated with a BSc majoring in Zoology, a PG (Dip) certificate in Education and a PG (Dip) in Environmental Law, all completed at UCT. She then spent over two years in off-road driving in Namibia. The thesis takes the Damara Tern, a near-threatened seabird breeding along the desert coastline of Namibia, Angola and South Africa. The survival of the species is at risk due to increasing coastal development and road driving and road driving is at risk due to increasing coastal development and road driving and road driving in Namibia. The thesis takes the Damara Tern, a near-threatened seabird breeding along the desert coastline of Namibia, Angola and South Africa. The survival of the species is at risk due to increasing coastal development and road driving. The thesis provides the first detailed information of breeding biology, demography and threats, re-assesses the global population, and makes recommendations for the conservation of the species.

**Supervisor:** Professor I Underhill (Zoology)
**Co-supervisors:** Dr R Simmons (Zoology), Dr J-P Roux (Ministry of Fisheries and Marine Resources, Namibia)

Callan Cohen

**Thesis Title:** The phylogenetics, taxonomy and biogeography of African arid zone terrestrial birds: the bustards (Otididae), sandgrouse (Pteroclidae), coursers (Glareolidae) and Stone Partridge (Ptilopachus)

Callan Cohen obtained his BSc and BSc (Hons) degrees from UCT and has been pursing his PhD at UCT, in the Percy FitzPatrick Institute of African Ornithology (Department of Zoology) since 2000. During this time he has contributed to and helped to manage a number of research projects while writing his PhD thesis, as well as authoring two books on birds and birding.

Callan Cohen’s PhD thesis explores the evolution of four groups of birds (bustards, coursers, sandgrouse, and the stone partridge) that inhabit Africa’s arid biomes using molecular, morphological and behavioral data. His is the only study to have examined the phylogenies of multiple families of African arid-zone taxa to evaluate shared biogeographical patterns. Insights from the evolutionary relationships of these families are used to assess the current state of their taxonomy, as well as to assess character evolution and other life history attributes (including evolution of their mating systems).

**Supervisor:** Professor TM Crowe (Zoology)
Angela Mead

**Thesis Title:** Climate and bioinvasions as drivers of change on South African rocky shores.

Angela Mead has a BSc (Hons) degree in Marine Biology from the University of Wales, a PGCE from Nottingham University and an MSc (with distinction) in Environmental Management from Hong Kong University. She joined the Marine Biology Research Centre at UCT in 2007. While completing her PhD she started a consulting company, participated in national and international conferences and workshops, was a post-graduate representative within the department, chairperson of the SAEON graduate student network and continued to raise her three sons.

Angela Mead’s PhD thesis examines the role of climate change and bioinvasions on South African rocky shore communities. Her research significantly increased the number of known marine bioinvasions from 22 to 85. The majority of these introduced species arrived from the North-East Atlantic, were transported by ships, and are found mainly in harbour areas, with very few open coast invaders. Using historic and contemporary data sets, she shows that significant long-term changes have occurred in the structure and functioning of rocky shore communities across the entire coastline. West and South Coast waters are cooling and East Coast waters are warming due to climate change. The proportions of cold and warm-adapted species present in rocky shore communities are also changing in response to these environmental signals. Cold-adapted kelps are expanding along the West and South coast, as is an invasive mussel. Conversely, a warm water native mussel species is retreating eastward. Thus Angela Mead’s PhD thesis has shown that both climate change and bioinvasions are resulting in significant changes on South African rocky shores.

**Supervisor:** Professor CL Griffiths (Zoology)

**11. FACULTY OF HUMANITIES**

**Dean:** Professor M P Ensor

**DEGREE OF DOCTOR OF PHILOSOPHY**

**In Education:**
*Ebrahim Alexander*

**Thesis Title:** Repetition overused as an academic writing strategy: a case study of Xhosa-English second language speakers

Ebrahim Alexander was born in District 6 and attended school in Manenberg on the Cape Flats. He completed undergraduate and Masters’ degrees at the University of the Western Cape. He has worked as a caretaker, a bookstore salesperson, a community-club leader and as a teacher. He currently teaches at Oasis School for learners with special educational needs.

Ebrahim Alexander’s PhD thesis uses close linguistic analysis to investigate how Xhosa English Second Language Speakers use repetition as a discourse strategy in their written academic work. The study draws on critical theory to situate repetition in its socio-cultural context. The analysis shows that the students’ use of repetition to create cohesion and coherence within their texts in order to make their writing conform to the university’s discourse conventions. Rather than being a surface feature, the repetition in the students’ texts reflects a lack of understanding of the deep structure of academic argument. Ebrahim Alexander’s cross-linguistic analysis demonstrates that the texts have an inductive, oral, declarative style that is typical of traditional Xhosa genres. Based on the findings, the study ends with a description of an intervention strategy which was designed to provide an explicit induction into academic discourse and to address the problem of the over-use of repetition.

**Supervisor:** A/Professor R Kapp (Academic Development Programme)

**In English Language & Literature:**

Donald Stuart Powers

**Thesis Title:** Emigration, literary celebrity, and the autobiographical turn in J.M. Coetzee’s later fiction

Donald Powers attained distinctions for his BA (Hons) and MA degrees at UCT. During the course of his academic career he has been the recipient of several academic accolades, and has also received awards for creative writing. Donald Powers is both a student and a teacher, in the English Department, as well as the co-founder of the Coetzee Collective, an international network of Coetzee scholars.

Donald Powers’ PhD thesis on J.M. Coetzee constitutes the first sustained study of the Nobel Prize-winning author’s later fiction, and explores the interleaving worlds of Coetzee’s fiction and his autobiographical works. The provocative argument of the thesis is best summarized in Donald Powers’ own words: the “self-disclosure in these narratives is not an end in itself, but an opening for raising questions about affiliation and complicity, the social responsibility of the acclaimed writer, the autobiographical nature of all writing, the limitations of genre and the entanglements of reading. Yet …the net effect of the critical voices that challenge and undermine the authorial personas in these fictions, fragmenting the surface of the narrative, is to reinforce ‘Coetzee’ as a powerfully integrated subject of criticism.”

**Supervisor:** A/Professor C Clarkson (English Language and Literature)

**In Environmental & Geographical Science:**

Najmunnisa Mammon

**Thesis Title:** The urban land question: management and access for the urban poor in post apartheid South Africa

Najmunnisa Mammon has a BSocSc (Hons) and a Masters in City and Regional Planning from the UCT. She has been registered for a PhD in the Environmental and Geographical Sciences Department since 2005. During this time she has also been practicing as a professional planner and published a number of papers and chapters in books on developmental local government, city planning and the urban environment focusing particularly on urban land and land use matters against the question of urban poverty.
Using multiple research approaches and methods, including qualitative and geospatial data, Najmunnisa Mammon’s PhD thesis examines the urban land question in South Africa, particularly Cape Town, where land distribution and ownership are highly inequitable. She unpacks land redistribution, land tenure reform and land restitution within this context. She argues that the South African Constitution commits government to protect the property rights of those who currently possess or own property, and at the same time commits it to redistribute land to those who have been dispossessed. Najmunnisa Mammon explores what this tension means for urban land redistribution and reform in Cape Town, using the Freedoms approach developed by Amartya Sen as a conceptual framework. She argues that the South African Constitution commits government to protect the property rights of those who currently possess or own property, and at the same time commits it to redistribute land to those who have been dispossessed. Najmunnisa Mammon explores what this tension means for urban land redistribution and reform in Cape Town, using the Freedoms approach developed by Amartya Sen as a conceptual framework. Najmunnisa Mammon’s PhD thesis proposes that state-owned land can play a significant role in addressing the urban land question in Cape Town and South Africa. The first step in making state-owned land available to the urban poor is to make the public land asset register more explicit and transparent to society. The second is to define a role for the state in facilitating access for the urban poor; and the third is to streamline urban planning and land use management processes to enable such access.

Supervisor: Professor S Parnell
(Environmental and Geographical Science)

In Historical Studies:
Elizabeth Helen Ludlow
Thesis Title: State schooling and the cultural construction of teacher identity in the Cape Colony, 1839-1865

Helen Ludlow was born and raised in Johannesburg. She obtained her Bachelors, Honours and Masters degrees with distinction in History from UCT. Her MEd with distinction in Tertiary Teaching is from the University of the Witwatersrand where she heads the Division of Social and Economic Sciences in the School of Education.

Helen Ludlow’s PhD thesis analyses the operation of the ‘New System’ of state schooling in the mid-nineteenth century Cape Colony, an early example of public education in the British Empire. She does this through an exploration of the experiences and worldviews of its teachers. Imbued with ideas rooted in Scottish educational practices, these teachers faced considerable challenges in a colony which was adjusting to the ending of slavery, divided by the rivalry of Dutch and British settlers and forging new ideas about masculinity and respectability. Using case studies of Cape schools ranging from Wynberg to Colesberg, Helen Ludlow shows how the construction of a distinct teacher identity was forged in the context of inadequate resources, local community suspicion and the indifference of the Cape government. Informed by the approaches of the new cultural history and, appropriately for an author of her experience, Helen Ludlow places the teacher at the centre of her study. In so doing, her thesis not only pioneers new ways of analysing educational systems, but also sheds much light on the cultural and social forces shaping the Cape Colony at a crucial transitional stage of its history.

Supervisor: Professor N Worden
(Historical Studies)

In Media Studies:
Franci Cronje
Thesis Title: Border crossings: how students negotiate cultural borders during digital video production

Franci Cronje is an educator, filmmaker and artist living in Cape Town. She has a MA in Fine Art from the University of the Witwatersrand. She has been studying at UCT since 2007 and is a lecturer and Head of Academic Affairs at Vega Brand Communications School, Cape Town.

Franci Cronje’s PhD thesis examines the complex relationship between identity politics and self-representation amongst a group of South African high school students engaged in digital video production. She explores social mobility, cultural memory and the way in which young people negotiate generational differences in response to social and cultural identities. Multimodal semiotics and multimodal interactional analysis is combined with theories of post-colonial identity and anti-racist pedagogy to provide an account of how these students interact and negotiate identity across their peer groups and family backgrounds. The study stresses the importance of popular cultural forms such as soap opera in providing tools for critical reflection. A sense of play engendered through digital video production and the soap opera genre leads to exploratory risk-taking, experiential learning and critical pedagogy. The use of parody provides a critical distance that enables these students to explore self-representation and stereotyped representations of identity. The research contributes to research on video production as a pedagogical environment, as well as research in communication studies and education. It shows that the use of video production combined with semi-formal pedagogical spaces can act as a meaningful catalyst for exploring identity and difference.

Supervisor: Dr A Archer
(Academic Development Programme)
Daniella Mark completed her BSc degree in 2001 achieving distinctions in Gender and Psychology, her BSc(Hons) in Psychology in 2002, and her MA degree with distinction in 2004, all from UCT. During this time she has also acted as Chief Social Scientist at the Desmond Tutu HIV Centre, part of UCT’s Institute of Infectious Disease and Molecular Medicine, the Psychosocial Division.

Daniella Mark’s PhD thesis identifies valid and reliable correlates of non-adherence to antiretroviral therapy and loss to follow-up from clinical HIV care settings in sub-Saharan Africa, so that solutions to these challenges may be put forward and implemented in the most affected region. With a sample of 150 patients from a community clinic in a peri-urban settlement, Daniella Mark conducted clinic file reviews, face-to-face interviews and neuropsychological testing at treatment initiation, followed by pill count adherence assessment, laboratory investigations and retention observation over a 96-week period. Using bivariate and multiple logistic regression, she found that the strongest high-level predictors of treatment failure were unemployment, alcohol abuse and neuropsychological dysfunction. Based on these results, she recommends specialised adherence counseling, adaptation of treatment guidelines for earlier treatment initiation, mechanical adherence reminders, treatment supporters and decreasing clinic visit burden.

Supervisor: Professor M Solms (Psychology)
Co-supervisor: Professor L-G Bekker (Infectious Disease and Molecular Medicine)

*Teri Bulicke Murphy
Thesis Title: An analysis of war trauma and refugee distress among Bosnian Muslim women: exploring social and personal healing in the aftermath

Teri Murphy obtained a BA from Taylor University and a MA from Wheaton Graduate School. While completing her studies through UCT’s Department of Psychology, she also served as a Faculty Associate at Arizona State University for the School of Justice and Social Inquiry.

Teri Murphy’s PhD thesis examines the healing process in the aftermath of war trauma for Bosnian Muslim refugee women. A qualitative approach to narrative analysis was used to show how recovery from multiple war trauma or violence has occurred only partially. By synthesizing theories of place identity, gender roles, and meaning making systems, the difficulties women face to integrate war and refugee experiences into social understanding was analyzed. Her thesis argues that when the women were alienated from place attachments, their history and narratives were disrupted. They were dislocated from a literal space called “home” and they lost a sense of existential belonging and identity. Her findings explicate how war and forced removals impacted familial and communal relationships. Women experienced relational losses through death and separation. They also lost the anchoring of their social identities. Teri Murphy’s narrative analysis demonstrates how traumatic events created an internal disorientation. Centralizing ethno-religious beliefs were shattered, leaving refugee women to face a crisis of meaning. Together, these findings elucidate how the radical discordance between pre/post-war place identification, role continuity, and cultural/religious belief systems is problematic, making it difficult for Bosnian Muslim refugee women in the study to heal or to fully recover in the aftermath of war.

Supervisor: Professor D Foster (Psychology)

In Social Anthropology:
Jaqualine Farai Mangoma
Thesis Title: The effects on local livelihoods of a wetland development scheme in a Zimbabwean village: an ethnographic study

Jaqualine Mangoma was born in Zimbabwe’s Chirumanzu District to parents who are amongst that country’s first teachers. Whilst employed at the University of Zimbabwe’s Lake Kariba Research Station, she won a USHEPiA fellowship and registered at UCT, her goal being to understand development programmes in areas such as her childhood district.

Jaqualine Mangoma’s PhD thesis is an ethnography of one of Zimbabwe’s Ngwarati agricultural wetland-development projects. She documents the project’s initial short-lived successes in improving livelihoods, and its rapid collapse thereafter. She explains that collapse as a product of diverse local, national and international factors, including unequal intra-project power relations, village- and ward-level political contestations, the ubiquitously debilitating local effects of national political processes, and the loss of foreign-aid consequent upon the ruling party’s execution of its national land-reform policies. Jaqualine Mangoma’s PhD thesis also demonstrates that, despite the development project’s collapse, its implementation left traces of positive effects for some local people: Some farmers successfully adapted technologies introduced in the project’s expropriated fields for use on their own household lands; and women’s empowerment principles, built into the project’s design and initial operation, enabled some local women to establish an economic autonomy they had not had previously. Jaqualine Mangoma uses those findings to demonstrate the limitations of the now popular ‘post-development’ critique of such projects, by offering examples that show how a post-development perspective curbs analysis of what actually happens on the ground and hides its sometimes positive consequences.

Supervisor: A/Professor AD Spiegel (Social Anthropology)
Co-supervisor: Dr N Wekwete (University of Zimbabwe)
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 Statement of Dedication will be read by a representative of the SRC.

Musical Item.

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

Professor Visser will introduce the speaker, Emeritus Professor GK Everingham.

Address by Emeritus Professor Everingham.

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

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)
NAMES OF GRADUANDS/ DIPLOMATES

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

FACULTY OF COMMERCE

Dean: Professor D Ross
Director of the Graduate School of Business: Professor W Baets

ASSOCIATE IN MANAGEMENT

Faadia Ally-Karriem
Antonio John Arendse
Cavall Jocelyn Moira Barends
Leigh Carolus
Nicolette Ann Cavenelis
Consular Ulendr Choma
Innocent Nkosi Dwayi
Nadira Gaffoor
Nazleah Hartley
Shaun John Hartzenberg
Lyle Clint Heckrath
Rowena Hess

*Zakuthwani Alfred Hona
*Mogamat Yagyah Isaacs

In Management Practice:

*Eric Asare-Boadi (with distinction)
*Sapalo Edward Chisalokile
*Richard Cromwell (with distinction)
*Candy Kim de Klerk
*Selven Soobrian Govender (with distinction)

Johannes Mpho Haasis (with distinction)
Lee-Ann Holland
Avri Jossie (with distinction)
Sherleen Juggpall
Vinesh Jungbahadur
*Pravesh Magonall Lakha
Godliver Manumbu
Julia Tselane Masilo
*Godfred Osei Mensah (with distinction)
Mthandeni Lungisa Mgwaba
Zandile Glamorous Mhlungu (with distinction)
Joel Mashabela Mosala
Sabelo Emmanuel Mthethwa (with distinction)
Nomahlubi Angela Ndhlouv
Muntukabongwa Steven Dumisi Nnxumalo

*Darko James Ohene (with distinction)
Shaun Oliver
*Ebenezer Asare Opong (with distinction)
*Frederick Owusu-Agyapong (with distinction)
*Stephen Brobbey Poku
Matome Livingstone Ramokgopa
Phetole Nathaniel Rapetswa
Robert Shoniwa
*Kwaku Okrah Siaboour (with distinction)
Salaam Taliep (with distinction)
Sonia Leigh Thomson (with distinction)
Wendy Leigh Thomson (with distinction)

*Ulimboka Tuntufye
Varity Lynette Willems
(with distinction)

POSTGRADUATE DIPLOMA IN BUSINESS ADMINISTRATION

Rudy Abrahams
*Ashley Adams
*Fred Barungi
Samatha Natalie Berry (with distinction)
Aznallah Cariem (with distinction)
Mignon Margarethe Clare Chater

*Cesaré Ethnene Chellah
Gideon Jacobus Nicolaas Coetzee
Waleed Davids
Gadibolele Cynthia Dihlabi
Sakhumzi Diko
Rezah Fakier
Nongqabutho Falala
Alan Lemuol Florence
Carliemia Fynn-van Eeden
Sharief Gallic (with distinction)
Gareth John Jones (with distinction)
Morne Jordaan
Juliet Mukalazi Kahunzwa
*Annie Chibwe Mulenga Kapepula
Rajesh Laljiith
Rushana Larney
*Conrad Dale Lattimer (with distinction)
Gareth Craig Levinsohn
Anthea Catherine Lewin
Jurelmo de Carvalho Lopes
*Zoleka Mapela
Deidré Olga Marquard
Musas Stanley Mbingo
Anthea Gillian Mead
*Nieyaaaz Mukaddam
*Marius Pretorius
Neelhandren Ramsamy
*Janome September
Siyanbuleta Ivan Sibula
Nomazibulo Singqoto
Paizel Small
Frederick de Wit Snyders

*Peet Stander
Sive Yibananthi Stofile
*Dhanyaa Theeyattuparambil Joy
Katharina Thieme
Mark Edward Tindle
Sivuyile Tyekana
Georg Geere van der Merwe
Anne van Niekerk (with distinction)
Carl Bradley van Rooyen
Michelle Amanda van Schalkwyk
Leon Martin Venter (with distinction)
Leigh-Anne Wentzel
Justin Mark White (with distinction)
Lauren Olivia Williams
James Sibusiso Xulu

POST GRADUATE DIPLOMA IN MANAGEMENT

In Management Practice:

*Haruna Abdul Karim
Susanna Magdalena Maria Ackerman
*Yvonne Adomako-Asabere
*Willet Anandorah Agongo
*Ryan Grant Arbster (with distinction)
Rian Colaas de Villiers
Feryal Domingo
Barbara Figaji (with distinction)  
*Daniel Johannes Grove  
Lesley Sandra Haynes (with distinction)  
Bernard du Pre le Roux  
*Gilmar Dieguez Lopes  
*Carol Maureen Mc Aleenan (with distinction)  
*Wade Metzer  
Arthur Obed Mgongo  
Lebogang Elizabeth Molai  
*Norah Minsozi Ndopu  
*Aboagye Obene Adu (with distinction)  
*Nana Akua Obene Adu  
Jayshree Padayatchey  
*Victor Hugo Paez  
Joanne Margaret Parsley (with distinction)  
Bily Purushothaman  
Ushanta Rampersadth  
*Francis Sarfo  
Raymond Schuller (with distinction)  
*Ely da Conceicao Junior Souza  
*Jennifer Gail Steyn  
*Chris Philip Storm (with distinction)  
*Michael Christian Weskamp  
Cara Leanne Wissink (with distinction)  
Muzaffer Ebrahim  
Jason Marc Economou (with distinction)  
Gareth Edwards (with distinction)  
Simone Marie Farah  
Jennifer Lee Fettig  
*Gabriele Luigi Fossati-Bellani  
Duane Seldrin Frank  
Adriaan Fuchs (with distinction)  
*Sarah Gauen  
*Daniel Gendelman  
Gareth Goodleser (with distinction)  
Kirby Hamilton Gordon (with distinction)  
Patrick Cheyne Gossage  
Peter John Griffiths  
Hermanus Jacobus Grobler  
*Vincent Julien Guimera  
Rishaad Hajee  
Eylan Shaun Harris  
Darren Reginald Helwick  
Katherine Ann Herbert  
Leor Tzion Hurwitz  
Vrishen Inderlall  
Gideon van Wyk Jacobs  
Pieter Ernst Janse van Rensburg (with distinction)  
Andrew Melville Johnson  
Samantha Mefanwy Jones  
Daniel Majani Juma  
Blessing Tafadzwa Kadira  
Evan Charles Kagan  
Perminas Kibc Kamau  
Amichai Nikita Kapilevich (with distinction)  
*Selen Karon  
Eunice Ayuma Khaguli  
*Carola Hendrun Kirchner  
Ian Kissoon  
*Koziba Kombani  
Konstandinos Theodore Kontos  
*George Joseph Koshy  
*Johan Hendrik Kritzinger  
*Michael Casper Labuschagne  
Peter Mark Lamplough (with distinction)  
*Charl Lombard (with distinction)  
Unathi Loos  
*Bernd Uwe Lütge  
Pranisha Maharaj  
*Ronald Rumbidzayi Makomva  
Sivan Dana Maymon  
Victoria Mendel  
Carl Meyer  
Ivonne Trixi Meyer  
Nadine Meyer (with distinction)  
Greg Middelwick  
Tiago Miranda Pereira de Almeida  
Ajmal Ismail Mohungoo  
*Janos Michael Molday  
Nhlanipho Diego Mtshali  
Hilton Mkuwiri  
Zhanna Myadiyeva  
Loshni Sharin Naidoo  
*Nerisa Naidoo  
*Mark Campbell Napier  
Johan Daniel Nel  
*Estath Njanike  
Sheroda Jorgina Novis  
*Alexander Novitzky  
Fiyinfoluwa Okunade  
Johan Jacob Pansegrouw  
Maryke Pienaar (with distinction)  
David Richard Portmann  
*Josephine Isabelle Ruth Potter (with distinction)  
Manabane Tshepo Rachidi  
Liam Adam Rainey (with distinction)  
Darren Clint Ravens  
*Aaron Reabow  
Isaivani Reddy  
Leila Reekie  
Kai Matthias Reuning  
Craig Frederic Ridgard (with distinction)  
Sergio Rodriguez Cano  
Abdul Latif Mamad Sacoor (with distinction)  
Mahomed Samir Sale  
Rihaan Samuel (with distinction)  
*David Frederic Sandler  
Konrad Schneeberger (with distinction)  
Leonid Schumacher  
Siobhan Louise Simpson (with distinction)  
*Miranda Simrie  
Brent Timothy Smith  
Rowan Andrew Miles Smyth  
Annabel June Stanbury  
Jason John Stanley  
*James Uwe Stemler  
Mark William Swanepoel  
Carl Johann Swart  
*Nyain San Ha Swe  
Richard Peter Thomason (with distinction)  
Tiisang Tisane  
Natasha Turton  
Annemieke van der Valk  
Jan Hendrik van Zyl  
Jan Stefanus van Zyl  
*Thomas Pierre Venon (with distinction)  
Gordon Douglas Ventress  
*Adrianus Wilhelmus Vugs  
Jolene Wade  
Lee-Anne Walker  
Taryn Lee Walker (with distinction)  
Trevor Watson (with distinction)  
Eben Welby-Solomon  
Paul Anthony Wijtenburg  
*George Shoemaker Wilkinson III (with distinction)  
Kirsten Wortmann (with distinction)  
Graham Kyle Wren
Laura Clare Wylie
Tuyen Jazmyne Yarlett
*Michael John Geekie Yeats

In the Executive Programme:
Richard Amoako Adofo (with distinction)
Edwin Ngosa Besa
Robert Dylan Bloom
Vanessa Botha
Stephan Brandt
Gregory Scott Brook
Henry Dhliwayo
Trevor Michael Glassock
Abdul Gafoor Kamaldien
Evariste Mukanya Katanga
Lefoko Maxwell Moagi
Ayanda Ntsaluba
Heather Parker (with distinction)
Richard Antony Perez (with distinction)
Royston Nathan Pillay
Ureka Rangasamy
Graeme Dering Stainbank
Gregory James Stuart
Franz Swanepoel
Brain Wafawarowa
Mark Christopher Wicking-Baird

DEGREE OF DOCTOR
OF PHILOSOPHY

In Business Administration:
Andrew McCalman Siddle
Thesis Title: Decentralisation in South African local government: a critical evaluation
Andrew Siddle holds the degrees of BA, LLB, LLM in Marine Law, an MBA and an M (Com) in Financial Management, as well as the PG (Dip) in Tax Law from UCT. He was admitted as an attorney and practised for several years before entering the world of commerce and thereafter working for the Development Fund of the Development Bank of Southern Africa. It was during his time with the Development Fund that he became deeply involved in the local government sphere in South Africa, an experience which prompted his undertaking the PhD degree.

Andrew Siddle’s PhD thesis examines decentralisation as a global politico-administrative phenomenon and the incorporation of its principles in the South African constitution and in the policy and statutory frameworks which regulate local government. By means of studies conducted at 37 local authorities located throughout the country, it also examines the extent to which the rules and prescripts contained in these frameworks are actually applied in practice. It finds that there is a widespread culture of non-compliance which contributes to the crisis which currently prevails in the sphere of local government, and that inertia and the lack of institutional capacity at all levels of government do not bode well for a decentralised model of local governance in South Africa.

Supervisor: Professor T Koelble
(Graduate School of Business)
MISSION STATEMENT

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;
OFFICERS OF THE UNIVERSITY

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Graça Simbine Machel, BA Lisbon LLD (hc) UWC DU (hc) Essex PhD (hc) Cape Town
DLitt et Phil (hc) RAU

Vice-Chancellor
Max Price, MBBCh Witwatersrand BA Oxon MSc Lond DOH Witwatersrand

Chairman of the Council
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DSocSc (hc) Natal PhD (hc) Cape Town DTh (hc) Stell DD (hc) Episcopal Divinity School
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Crain Arthur Soudien, MA HDE(PG)Sec Cape Town BEd Unisa EdM PhD SUNY Buffalo
Daniel Petrus Visser, B Juris LLB LLD Pretoria Dr Jur Leiden Advocate of the High Court
Fellow of the University of Cape Town

Deans of Faculties

Commerce: Don Ross, BA MA PhD Western Ontario

Engineering & the Built: Francis William Petersen, PrEng BEng MEng PhD Stell MSAIChE

Environment: MSAIMM

Health Sciences: Marian Eslie Jacobs, MBChB DCM Cape Town FCP SA

Humanities: Paula Ensor, BSoSc Natal BA(Hons) Cape Town CEd Lond DTEd Unisa

MSc PhD Lond

Law: Pamela Jane Schwikkard, BA Witwatersrand LLB LLM Natal LLD Stell

Science: Anton Powter Le Roex, BSc Stell BSc(Hons) PhD Cape Town

Dean of Higher Education Development
Ian Rael Scott, BA BA(Hons) Cape Town (Acting)

Director of the Graduate School of Business
Walter Remi Juliaan Baets, BSc MSc Antwerp PhD Warrick

Registrar
Hugh Theodore Amoore, 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 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/](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!