
FACULTIES OF HEALTH SCIENCES (CEREMONY 2) AND LAW

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ORDER OF PROCEEDINGS

Academic Procession.

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

The Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

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

The Orator will invite the President of Convocation to present the President of Convocation's Medal for 2014 to William Pick.

Professor Visser will present Clifford Shearing for the award of a Fellowship.

The honorary graduand will be presented to the Chancellor by the University Orator, Professor A Lewis.

Professor Visser will invite Professor Rodney Douglas to address the congregation.

Address by Professor Rodney Douglas.

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

The Chancellor will congratulate the new graduates and diplomates.

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

The Chancellor will dissolve the congregation.

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

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

GAUDEAMUS

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

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

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

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

NATIONAL ANTHEM

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

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

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

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

DISTINCTIONS IN THE FACULTY OF HEALTH SCIENCES

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

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

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

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

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

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

DISTINCTIONS IN THE FACULTY OF LAW

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

an average of 70% in all law courses; and

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

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

an average of 75% in all law courses; and

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

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

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

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

PRESIDENT OF CONVOCATION'S MEDAL

Award of the President of Convocation Medal for 2014 to

William Pick

This medal is awarded annually by the President of Convocation to an alumnus or alumna who has made a singular contribution to the common good. The award for 2014 goes to William Pick, a UCT medical graduate whose life and career have been devoted to improving the health of our people. This contribution has ranged from work in Ravensmead as a well-loved general practitioner, contributions through his leadership of the Health Workers' Society, and the KTC Health Project, a project providing an alternative model to the prevailing doctor-centred, hospital-based healthcare system, involvement in civil society organisations in his community, making the connection between the needs of community and society, and to specialisation in community medicine and a career of distinguished leadership in public health.

FELLOWSHIP

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

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

2006: TW Bennett

2007: JM Burchell

2005: HM Corder

2006: DP Visser

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

Clifford Denning Shearing
Emeritus Professor in the Department of Public Law

Professor Clifford Shearing is a distinguished scholar in the field of security governance. An internationally recognised researcher in the field of policing and security, his research and writing has focused on the development of theoretical understandings that can be used to enhance the quality of security and justice governance. A particular focus of his work has been contributing to the development of institutions and processes that enhance the ability of poor collectivities to both direct and add value to their security and justice. He is currently developing research on environmental security.

He holds a BSocSc (1965) and BSocSc Hons (1967) from the University of Natal and MA (1968) and PhD (1977) from the University of Toronto and is currently Professor in the Institute for Humanities in Africa (HUMA), Law Faculty, University of Cape Town. He also holds the South African National Research Foundation Chair in Security and Justice at UCT and is an Adjunct Professor, School of Criminology and Criminal Justice, Griffith University.

From 2006-2013 he held the Chair of Criminology and Directorship of the Centre of Criminology in UCT's Law Faculty, and he is a South African National Research Foundation A1 rated researcher.

In 2013 he was awarded the American Society of Criminology, Thorsten Sellin and Sheldon and Eleanor Glueck Award, 2013 - awarded to recognise criminological scholarship relating to problems of crime and justice outside the United States and which offers new perspectives or approaches to members of the Society.

Professor Shearing's pioneering scholarship on policing has been driven by his quest to understand the nature of power and the ways in which human beings both reflect and reify its modalities. Connecting his works are concerns about altering power relations such that they enhance the self-direction of poor and vulnerable populations. He has advanced the field by expanding the focus of criminology to practices of social ordering beyond government institutions and to non-state institutions that scholars have commonly refused to acknowledge. His concepts of "nodal policing" and the "governance of security" are now part of the lexicon in a growing body of explanatory and normative work on developments across the world and at different geographies of analysis.

HONORARY DEGREE RECIPIENT

Rodney Douglas
DSc (honoris causa)

Rodney Douglas graduated from UCT with a BSc(Med) in 1969, a MBChB in 1974 and a PhD in 1983. For the past 25 years he has worked in Zurich where he is based in the Institute of Neuroinformatics at the University of Zurich and ETH Zurich.

Douglas was one of the first to steer the shift from “neurally inspired” models of brain function to models that incorporate the real biology. He combined skilled bench-work with computational and theoretical approaches based on emerging technologies. His work in the field of neuroscience has revolutionised the understanding of cerebral cortex functioning, through anatomical and computational studies of the visual cortex.

One of the most profound influences Douglas exerted was through the development of the “canonical microcircuit”. He and colleagues established a fundamental functional microcircuit of the visual cortex. Working collaboratively he was instrumental in developing areas such as computational neuroscience and neuromorphic engineering. He has continued to work in this field and is responsible for another landmark study, concerning an anatomically quantified matrix of visual cortical cell types.

Rodney Douglas has spearheaded major advances in neuroscience and in elucidating brain function. He has led several multi-centre collaborative projects, developed software, available in the public domain, to assist neuroscientists in unravelling patterns of synaptic connectivity in brain tissue, has supervised 46 PhD graduates and supported and launched many careers in neuroscience.

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
HEALTH SCIENCES**

Dean: Professor W De Villiers

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

**POSTGRADUATE DIPLOMA IN
ADDICTIONS CARE**

- *Jane Vyvyan Bean
- *Bianca Brent
- *Dominique Robert Caswell
Johann Stafford Coetzer-
Liversage
- *Princess Nobom Danster
- *Abdurahman Dollie
- *Caesare Esau
Tracy-Ann Le Breton
Simone Clair Ortell
- *Chantelle Pepper
Jurgens Jacobus Smit
Arthur Leon van Zyl

**POSTGRADUATE DIPLOMA IN
COMMUNITY EYE HEALTH**

- *Munyaradzi Kadiki

**POSTGRADUATE DIPLOMA IN
DISABILITY STUDIES**

- *Khadija Salum Ally Mashuke
Zelda Mubi

**POSTGRADUATE DIPLOMA IN
FAMILY MEDICINE**

- *Abhaya Singh Karki

**POSTGRADUATE DIPLOMA IN
HEALTH MANAGEMENT**

- Andre John Stoffels

**POSTGRADUATE DIPLOMA
IN HEALTH PROFESSIONAL
EDUCATION**

- Yvette Andrews
- Mercy Dotty Banyini
- Shahraaad Hassan
- Kosmas Haushiku Kema
- Sonja Raylene Lewis
- Fikile Precious Mafuya
- Tshifhiwa Cynthia Mandiwana
- Leslie Manganye
- Daniele Ruth Milner
- *Vistolina Nenayishula Nuuyoma
- *(With distinction) Romy
Elizabeth Parker
- Nwamuhohova Hilda Shilubane
- *Judy Steyn
- Aye Aye Wamono

**POSTGRADUATE DIPLOMA
IN MATERNAL
AND CHILD HEALTH**

- *Slindile Princess Mbhele

**POSTGRADUATE DIPLOMA
IN NURSING**

- In Advanced Midwifery and
Neonatal Care:*
- (With distinction) Chantel
Badenhuizen
- Jessica Naomi Fynn-Theys
- Melissa Eloise Louis
- Veronica Elizabeth Swiegelaar

- In Child Nursing:*
- (With distinction) Tracy-Ann
Barbara Castle
- (With distinction) Chikondi
Sharon Chimbata
- Cercilia Monica Davidse
- (With distinction) Mtisunge
Joshua Gondwe
- Revona Edith Goosen
- Esther Jane Husselmann
- Victoria Baran Kirway
- Christina Krieger

- Naomi Joyous Likumbo
- Christina Baluhya Malekelwa
- *Sindiswa Gladys Mamana
- Ntsikelelo Nicholas Manona
- John Michael Mhango
- Beverly Mankutloeng Mosiuoa
- Ntombozuko Bridgett Mtshiselwa
- Michelle Anthea Pekeur
- Lilian Salvatory
- Victoria Suwe
- Wilma Antoinette Thomas

In Critical Care Nursing (Child):

- Zenita Sandra Ambraal
- (With distinction) Elizma
Jo-Anne Amsterdam
- Marilyn Ceasar
- Thobeka Oriena Duma
- Caroline Essiah Essel
- Ncumisa Julia Fatuse
- (With distinction) Laneshree
Govender
- Wilhelmina Shaningashetu
Hekandjo
- Teboho Calitz Kujoana
- Ntombintlanu Caroline Majo
- Danisile Ettie Mbali Makhubo
- (With distinction) Samantha
Jesmean Meyer
- Vuyokazi Mlakuhlwa
- Tsokolo Mary Motsoane
- Noxolo Elizabeth Ngqwebo
- Phumeza Julien Nkasana
- Nthabiseng Malefa Gladys Nkopi
- Zanele Primrose Sapepo
- Ruth Jane Tsolo
- Godwin Abeiku Yankson

In Nephrology Nursing:

- Ifeoluwa Femi Ajayi
- Petronella Botha
- *Nomusa Audrey Chili
- (With distinction) Tholy
Hlatshwayo
- Lindelani Ligeigise
- Jacobeth Sindisiwe Madlala
- Michael Mntungwana
- Dikeledi Magdeline Motaung
- (With distinction) Ngoakoana
Clara Mufamadi
- Nonkululeko Bongiwe Ntuli
- (With distinction) Mary Johanna
Ogilvie
- Zoleka Petunia Qwabi
- Motsei Daphney Tobosi

POSTGRADUATE DIPLOMA IN
OCCUPATIONAL HEALTH

- (With distinction) Berlize du Plessis
*(With distinction) Andrew William Ellis-Cole
*(With distinction) Shireen Henry-Karriem
*(With distinction) Saajida Khan Tsebang Leonard Lelisa
*Ketso Maribe Maribe Roselyn Moshia
*Baagi Motshereganyi
*(With distinction) Munyaradzi Mujuru
(With distinction) Milolo Muriel Justine Aurelie Mukenge
(With distinction) Nisreen Sayed
(With distinction) Zahida Sunday
*Nicholas van de Water
*(With distinction) Leonie van Zyl

POSTGRADUATE DIPLOMA IN
PALLIATIVE MEDICINE

- *(With distinction) Raksha Balbadhur
*Nicholas Simon Fine
*Cornelius Kondwani Huwa
*Salamat Ayodele Isiaka-Lawal
*Robyn Sylvia Nomonde Ntozini
*Eunice Nkechi Omoyeni
*Ayodeji Olaolu Oyeniran
*Refilwe Sello
*(With distinction) Albertha Jacomina Terblanche
*(With distinction) John Scott Turner

POSTGRADUATE DIPLOMA
IN PESTICIDE RISK
MANAGEMENT

- *Johannes Modisaotsile Mokgatle
Tshepo Lily Mosedame
Shumirayi Muhera
*Nicholas Ireri Njue
*Bruce Simfukwe
*(With distinction) Cyrus Githaiga Wagate
*Kibrom Asmerom Weldegebriel

POSTGRADUATE DIPLOMA
IN PSYCHOTHERAPY

- Beverly Helen Draper
Taryn Nicholas
*Catherine Ann Rodwell

2. FACULTY OF LAW

Dean: Professor P J Schwikkard

POSTGRADUATE
DIPLOMA IN LAW

In Commercial Law:

- Abongile Asanda Jwaai
Elias Francis Mkata

In Environmental Law:

- Nceba Matthews Ncaphayi

In Tax Law:

- Rehana Cassiem
David Deetlefs
Sazi Tshaka

DEGREE OF
BACHELOR OF LAWS

- Shamima Allie
Nuhaa Amardien
Sarah-Paige Banner
Melanie-Ann Bauer
Michaela Isabelle Bolton
Jamie-Leigh Brandes
Yeleni Georgia Bruinders
Stephanie Anne Burtenshaw
Danel Campbell
Grethe Carr
Wenike Carreira
Kira Jade Castle
Yasin Chetty
*Julian Ashley Comalie
Kelly Cowell
Ross Martin Cowlin
*Akua Dansoaa Danso
Jaryd Ryan Davidson
Tara Davis
Rabia Desai
Göksen Effendi
Mogamat Zaid Elloker
Amy Catherine Farish
Brittany Feldman
Jessica Rose Foster

- *Calvin Andrew Freese
Nabeelah Gallant
Tasleema Ganey
Harsha Zoë Gihwala
(Magna cum laude) Andrew John Giliam
David Samuel Goldberg
Rosanne Lynn Gorven
Nicholas Edward Neville Griffin
Olwethu Gusha
Gareth John Handley
Natalie Claudie Harten
Jonathan Carl Hock
*Larissa Helena Holtzhausen
Bruce Daniel Hughes
Kerry Lynne Hutchings
Gennaro Alessandro Indiveri
Daniel Michael Isaacson
Maude Vitima Jere
Nuukongo Ngatuane Kasuto
Megan Zara Korber
Kelly Maxine Kowalski
Amanda Nosipho Kunene
Sa'ood Lahri
Laura Lambert
Kerry Lee Langschmidt
Michael David Law
Rosamund Katharine Mary Leinberger
*Johan Laurance Lorenzen
John Fredrick Loubser
*Benjamin Peter Lowe
Tracey-Lee Lusty
Ngcebo Ndabenhle Mabizela
Mihlali Magaqa
Thamsanqa Malusi
Lloyd Anthony Manning
Siviwe Mcetywa
Jonathan Ian Mcinerney
*Lance Kyle Mckenzie
Nicholas Lindsay Llewellyn Meyer
(Magna cum laude) Lauren Michele Midgley
Kevin Timothy Minofu
Kathryn Mitchell
Nomsa Hazel Mlambo
Wela Nomazizi Mlokoti
Almaaz Mohamed
Tebogo Oagile Moloko
*Christopher John Morcom
Kirsten Helle Mullins
Chiedza Sandra Museredza
Kshethra Naidoo
Rofhiwa Nemokula
Matilda Rutendo Nengare
Kyoung Hwan Ohm
David Stuart Ormrod

*Andrew William Paget
Thelma Nombulelo Pakati
Inge Papp
Faryn Elizabeth Pearson
Craig Jonathan Pechey
Dean Matthew Pinto
Nicholas Potheary
Jonathan Michael Purnell
Pia Teresé Rebelo
Xavier Dominic Rebelo
*Samantha Nicola Robb
Stacey Jade Rodkin
Julia Emma Rushton
Scott Thomas Salusbury
Jonathon Mark Serridge Saville
Esmeralda Sayagues
*Martha Mokgadi Seabi
Jonathan Dean Rishi Singh
Candice Lauren Spence
*Niell Strydom
(Cum laude) Max Taylor
Charne Thompson
Katherine Lindsay Timoney
Ariella Todesco
Kyle Pearse Toner
Mthokozisi Tshuma
Jamie Rhys van der Riet
Marco-Alain Alex Vieira
Taaj Viljoen
Liane Judy Williams
*Amy Susannah Williamson
Caiden John Wilson
Lisa Kate Wood
(Magna cum laude) Chloe
Woodin
Nicholas Antony Wright

3. FACULTY OF HEALTH SCIENCES

Dean: Professor W De Villiers

DEGREE OF BACHELOR OF SCIENCE IN MEDICINE (HONOURS)

In Forensic Genetics:
Michele Jo Wilson

In Nutrition & Dietetics:

*Anri Horne
Candy Jacobs
Gabrielle Lana Lasker
Nuraan Martin
Lindiwe Nomathemba Mpala

Mukondeleli Talelani
Mukhodobwane
Hanneke Elisabet Potgieter
Christopher Marc Rabie
Rael Howard Sanzul
*(First class) Tamar Rosemary
Schlimper
Kailey van Heerden

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS

In Bioinformatics:
(First class) Alexa Storme Heekes
Paidamoyo Farai Kachambwa
(First class) Wimbai Caroline
Mandikumba
*Christiaan Gerhardus Viljoen

In Cell Biology:
(First class) Jenna Susan Bleloch
Joy-Mari Buys
*(First class) Min Kyu Lee
*Niccolo Passerin D'Entreves
(First class) Danica Anne Smuts
*(First class) Breffni Constantine
Whitehead

In Human Genetics:
(First class) Karryn Leigh Brown
(First class) Jonathan James
Evans
*Anathi Jongilanga
(First class) Jenna Leah
Oosthuizen
(First class) Kirsten Blythe Seale
(First class) Lynn Tyers

*In Infectious Diseases and
Immunology:*
*Dylan Cox
(First class) Daniel James Stadler
Egan
Tamlyn Mac Quene
(First class) Michael Francois Nel
*Giovanni Battista Nusca
(First class) Edyth Parker
*Grant Leslie Barry Petersen
(First class) Jonathan Paul Spanos
(First class) Lauren Kerry
Whitehead

In Medical Biochemistry:
*(First class) Melissa Jayne
Blumenthal
(First class) Sarah Louise Carden

*(First class) Shani Tamlyn de
Beer
(First class) Elise Andrea de Kock
(First class) Emily Clare McGrath
*Isla Kate McQuaid
Winfull Jaconia Msipa
*(First class) Jessica Sjouerman
(First class) Taegyn Elizabeth
Turnley
*Andrew Logan Wishart

In Pharmacology:
Nicole Jo-Ann Links
(First class) Jeffrey Mark Ndove
(First class) Lloyd Tanner

In Physiology:
Rachel Christy Reid Bean
(First class) Richard Joseph
Burman
(First class) Christopher Brian
Currin
Jorique Fourie
(First class) Sheryl Rajpaul
(First class) Lara Jane Van Nunen
*Laikyn Jade Victor

In Radiobiology:
Muhammad Naadir Ganief

In Structural Biology:
(First class) Jeremy Gareth
Burgess

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS (EXERCISE SCIENCE)

(First class) Tayla Kyle Chin
Anita Nokuthula Gulwa
(First class) Keagan Forrest
Pearson
(First class) James Michael Peart
*(First class) Jenna Thomson

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS (BIOKINETICS)

Joshua Marc De Hahn
Stefanus Den Hollander
Kagiso Dikgomo
Dayna Stacy Kendall-Ball
(First class) Samantha Dawn
O'Connor
(First class) Sorrel Patricia Reid

DEGREE OF BACHELOR OF
MEDICAL SCIENCE HONOURS
(NUTRITION AND DIETETICS)

Anel Schoonees

DEGREE OF MASTER OF
MEDICINE

In Anaesthesia:

*Adri Marais

In Emergency Medicine:

*Hendrick Jaco Lategan

In Family Medicine:

Jennifer Mary Morgan
Julian Bernard Te Riele

In Neurology:

*Christine Herculine Albertyn

In Neurosurgery:

Johannes Marthinus Nicolaas
Enslin

In Obstetrics & Gynaecology:

(With distinction in the
dissertation) Paversan
Archary
Luis Aaron Gadama

In Otorhinolaryngology:

(With distinction in the
dissertation) Gavin Sean
Quail

In Surgery:

Deepanjali Banerjee
Jacobus Christoffel Kloppers

DEGREE OF MASTER OF
MEDICINE IN ANATOMICAL
PATHOLOGY

*Nicole Joy Morse

DEGREE OF MASTER OF
MEDICINE IN MEDICINE

Bradley Paul Griffiths
*(With distinction in the
dissertation) Debbie Nel

DEGREE OF MASTER OF
MEDICINE IN OBSTETRICS
AND GYNAECOLOGY

Nwabisa Giyose
Gladys Chikumbutso Membe
Manasri Naiker

DEGREE OF MASTER OF
MEDICINE IN ORTHOPAEDIC
SURGERY

*Maritz Laubscher

DEGREE OF MASTER OF
MEDICINE IN
OTORHINOLARYNGOLOGY

*Mogammad Sauliegh Kamedien

DEGREE OF MASTER OF
MEDICINE IN RADIATION
ONCOLOGY

Bhiskar Reddy

DEGREE OF MASTER OF
MEDICINE IN SURGERY

(With distinction in the
dissertation) Johannes
Marthinus du Toit

DEGREE OF MASTER
OF PHILOSOPHY

In Biokinetics:

Roedolf Frederik van Aarde

In Maternal & Foetal Medicine:

*(With distinction in the
dissertation) Catherine
Elliott

In Nephrology (Adult):

*(With distinction in the
dissertation) Thandiwe
Angela Lerato Dlamini
*Kajiru Gad Kilonzo

In Paediatric Pathology:

*Pawel Tomasz Schubert

In Palliative Medicine:

*Suzanne Eva Schneider

In Public Health:

Thandi Chuma

In Sport & Exercise Medicine:

*(With distinction in the
dissertation) Sachin
Ramanlali Baba
*(With distinction) Leigh Helen
Gordon
(With distinction in the
dissertation) Mark Anthony
Rousot
(With distinction in the
dissertation) Alan Bruce
Thomson

In Sports Physiotherapy:

*Dawn Nunes
Martin Sarembock

DEGREE OF MASTER OF
PHILOSOPHY IN EMERGENCY
MEDICINE

In Clinical Emergency Care:

Nadine Seymour

DEGREE OF MASTER OF
PUBLIC HEALTH

(With distinction in the
dissertation) Shanaaz
Dawood
Robyn Kalan
Mamonyowe Portia Motsoeneng
*Derval Mary Reidy
*Agnes Ronan

In Clinical Research:

Linda Nyambura Mureithi
*Vashini Pillay

In Epidemiology:

(With distinction) Wisdom Basera
(With distinction) Erick Wekesa
Bunyasi
Erna Heather Morden
Vanessa Mudaly
*(With distinction in the
dissertation) Nobubelo
Kwanele Ngandu
(With distinction) Mireille Nicole
Porter

*Meseret Aseffa Yenehun

In Health Economics:

Tryphine Zulu

In Health Systems:

*Bang Jacob Kuh

DEGREE OF MASTER OF
SCIENCE IN MEDICINE

In Anatomy:

*Maxwell Jennings Sadler

In Biomedical Engineering:

Faatiema Salie

In Cell Biology:

Ana Popovic

In Clinical Science and

Immunology:

Thandeka Moyo

In Emergency Medicine:

*(With distinction) Jennifer Ann

Bress

In Exercise Science:

*(With distinction) Rob Henricus

Petrus Henst

*(With distinction) Jani Linde

Nicola Ann Sewry

In Haematology:

(With distinction) Nontlantla

Cecilia Mdletshe

In Medical Biochemistry:

Omesan Nair

In Medical Virology:

Iyaloo Mbodo

In Neuroscience:

Nokuthula Makena

(With distinction) Asanda

Mtintsilana

Nicolina Thandiwe van der

Merwe

In Nutrition:

Kondwani George Happy

Katundu

DEGREE OF MASTER OF
SCIENCE IN NURSING

*(With distinction) Andy
Emmanuel

*Solomon Musa Gimba
Hilma Shikwambi

DEGREE OF MASTER
OF SCIENCE IN
OCCUPATIONAL THERAPY

Nyaradzai Esther Dangarembizi
(With distinction in the
dissertation) Clement
Nhunzvi

DEGREE OF MASTER OF
SCIENCE IN SPEECH-
LANGUAGE PATHOLOGY

*Gaby Roxanne Kaplan
(With distinction) Olebeng Olive
Mahura

4. FACULTY OF LAW

Dean: Professor P J Schwikkard

DEGREE OF MASTER
OF LAWS

Sharon Nambasa

In Commercial Law:

Paren Chandrakant Borhara

Elena Irnsperger

*(With distinction) Lauren Jane
Kent

*Marko Daniel Kershoff
(With distinction) Benjamin

Leupi

Amanda Nyasha Mahlunge

Edward Siyabonga Mathabela

Peter Mutuku Mbithi

Buyile Doris Mdluli

Shirley Aggrey Mlimuka

Victor Phambili Ngaleka

*Kaulikalelwa Ndatalanawa
Nghishitende

Sani Baba Sani

James William Smith

Oluwatosin Modupe Solanke

*Chitsanzo Ivy Zingano

In Comparative Law in Africa:

Jane Chinonyerem Diala

*In Constitutional and
Administrative Law:*

Tebogo Titose Mapodisi

Sherilyn Shale Naidoo

In Criminal Justice:

Jullie Ingrid Lugulu

Theophile Sugira

In Environmental Law:

*Robyn Elizabeth Hugo

In Intellectual Property Law:

Sipho Mudau

Saima Litauleni Nghihalwa

Bram Van Wiele

Aina Naambo Vilho

In International Law:

*Bernard Otieno Barasa

Diana Kyobutungi

Eugene Lizazi Libebe

In International Trade Law:

*Dorcas Banda

Nancy Washinga Kamau

Ephraim Musiba

Natasha Nsanta

Mabela Cynthia Qhobela

In Marine and Environmental Law:

Moira Leigh Johnston

In Private Law:

(With distinction) Richard Henry

Cramer

*Janine Bettina Howard

In Public Law:

Telana Deslin Halley

In Shipping Law:

*Martha Magdalena Bradley

Samuel John Davidson

Katarina Margarete Solf

DEGREE OF MASTER OF
LAWS IN COMMERCIAL LAW

Antony James Maseno Anabaka
(With distinction) Brittany
Elizabeth Anderson
Jaquiline Aturinda
Marvin Ricardo Awarab
*(With distinction) Euan Bruce
Shaa'ista Bulbulia
Molisa Christopher Cheda
Memory Garises
Hambeleleni Twamanguluka
Heita
*Marcel Robert Hoyer
Jesse Juutinen
*Bas Kentie
*Jeanett Mathebe Kumalo
Michalis Andreou Michaelides
*Ardilah Rowayda Mohamed
Molly Peneyambeko Nakapela
*Stephanus Homateni Nambili
Junior Babila Ngwa
Pamella Achieng Ogwang
Chisom Chioma Okafor
Chiedza Shoniwa
(With distinction) Jessie
Vanoppen

DEGREE OF MASTER OF
LAWS IN LABOUR LAW

*(With distinction) Graham Patrick
Charters
Kumaren Govender
Diantha Clara-Price Jones
(With distinction) Jörn-Philipp
Klimburg
Elliot Sanhewe

DEGREE OF MASTER OF
LAWS IN SHIPPING LAW

Silvia Corona González
*Efemena James Oghenejakpor

DEGREE OF MASTER
OF PHILOSOPHY

*Emily Oppenheimer

In Commercial Law:

*Joseph Edwin Haydn Davies
Anacleto Gaspar Henda
Domingos

In International Law:

Nelago Ndapandula Amadhila

In Labour Law:

Jack Francis Erskine Chennells

In Social Justice:

*Susannah Benson Clarke

DEGREE OF DOCTOR
OF PHILOSOPHY

In Commercial Law:

*Maleka Femida Cassim

Thesis Title: *The statutory
derivative action under the
Companies Act of 2008: guidelines
for the exercise of the judicial
discretion*

Femida Cassim, a Senior Lecturer
in law at the University of Pretoria,
is a qualified medical doctor with
an MBBCh (cum laude) from the
University of the Witwatersrand, as
well an LLB and LLM (both cum
laude). She is an Attorney and Notary
Public, and has co-authored two
leading textbooks on company law.

Femida Cassim's thesis
concerns the new derivative action,
under the Companies Act of 2008,
which confers a pivotal function
on the courts as gatekeepers to the
action. Her thesis focuses primarily
on the three guiding criteria or
gateways for the grant of leave for
derivative proceedings. Based on the
comparative research and analysis
that she has done, guidelines are
suggested for the approach that
the South African courts should
adopt. Femida Cassim's research
has led her to conclude that the
rebuttable presumption in section
165 of the Act contains a serious
flaw that calls for legislative
amendment. Pending such
amendment, she suggests proposals
for the proper judicial approach to
the application of the rebuttable
presumption. Equally importantly,
she also proposes a framework
for the exercise of the judicial
discretion to make orders of costs.

Supervisor: Professor RD Jooste
(Commercial Law)

In Public Law:

Admark Moyo

Thesis Title: *Balancing child
participation rights, parental
responsibility and state
intervention in medical and
reproductive decision-making
under South African law*

Admark Moyo has an LLB degree
from the University of Fort Hare
and an LLM from the University
of Cape Town. His thesis emerged
from his interest in international
and domestic human rights law.

Admark Moyo's thesis
aims to explore the legal principles
to be applied in resolving the tension
between children's participation
rights, parental responsibility and
state intervention. He demonstrates
that the child's best interests,
developing maturity, and protection
rights play an important role in
determining not only the level of
autonomy and protection to be given
to the child, but also the extent to
which the state should intervene in
the decision-making process. South
African law confers on adolescents
aged 12 years and above the
autonomy to make independent
medical and reproductive decisions
provided they have sufficient
maturity or capacity (for informed
consent) to do so. To the extent
that it confers autonomy on
children as young as 12 years and
does not define key terms such as
'sufficient maturity' and 'informed
consent', domestic law undermines
the importance of protection
rights and inappropriately allows
pro-choice doctors to deem as
competent children 'competent'
to make complex treatment
decisions without parental
consent or state intervention.

Supervisor: Professor DM Chirwa
(Public Law)

Sophie Nakueira

Thesis Title: *New architectures of governance: transnational private actors, enrolment strategies and the security governance of sports mega events*

Sophie Nakueira has an LLB from Makerere University and an LLM in Commercial Law from the University of Cape Town.

Sophie Nakueira's thesis examines how transnational private actors enrol auspices and providers of governance (both state and non-state) to achieve safety objectives. It focuses on the enrolment strategies and regulatory tools that were used to ensure safety in the mega event spaces of Cape Town during the 2010 FIFA World Cup. The thesis demonstrates how FIFA used self-governing contracts that enabled it to enrol the host state as well as non-state actors within and beyond state boundaries into architectures of security governance. The empirical evidence showed that both state and private sector actors were instrumental in coordinating and providing security in ways that drew upon their different but complementary capacities. The thesis helps us understand how existing resources can be effectively mobilised, and coordinated, to construct safety.

Supervisor: Emeritus Professor CD Shearing (Public Law)

Kennedy Monchere Nyaundi

Thesis Title: *How does the implementation of counter terrorism measures impact on human rights in Kenya and Uganda?*

Ken Nyaundi has an LLB (University of Nairobi) and an LLM (University of Cape Town). A highly experienced human rights advocate and leader of various

Kenyan civil rights organisations, he chaired Kenya's Interim Independent Electoral Commission which managed the controversial 2010 referendum leading to a new constitution. Ken Nyaundi explores the legal impact, on Kenya's and Uganda's laws, of counter terrorism measures -- measures initiated at an international level and then amended for incorporation into the two states' domestic laws. Nyaundi's thesis argues that this legislation opened the way to significant violations of the International Covenant on Civil and Political Rights, the African Charter on Human and People's Rights, and the Kenyan and Ugandan constitutions. Yet, he shows, increasing numbers of violent attacks on civilian populations in East Africa have dramatically changed attitudes to human rights, making public security a prime concern. Observing that national governments have a basic responsibility to secure both lives and property, he contends that a balance must be struck between human rights and public security. To maintain this balance, he argues, states should have recourse to derogations from and limitations to certain rights on the ground that they are dealing with states of public emergency.

Supervisor: Professor T W Bennett (Public Law)

5. FACULTY OF HEALTH SCIENCES

Dean: Professor W De Villiers

DEGREE OF DOCTOR OF PHILOSOPHY

In Anatomy & Cell Biology:

Nonhlanhla Dlamini

Thesis Title: *The early inhabitants of the Upemba Depression, the Democratic Republic of Congo: a biological review of the cultural continuity theory.*

Nonhlanhla Dlamini has a BSc in Archaeology and an MSc(Med) in Biological Anthropology from UCT. She has had extensive field experience in the excavation and analysis of human skeletal remains. She has been part of the Africa Genome Initiative, and sits on the Iziko Human Remains Advisory Committee.

Nonhlanhla Dlamini's thesis examines the biological variation of the human skeletal remains of the early inhabitants from the Upemba Depression in the southeast of the Katanga Province (Democratic Republic of the Congo) by using metric and non-metric dental morphological traits, as well as the cultural context of these skeletons as determined by their archaeological and biochemical signatures. The analysis of patterns of dental disease, carbon, nitrogen and oxygen stable isotopes as well as phytoliths demonstrate that the diets and behaviours varied amongst these Iron Age communities. The findings have contributed to our understanding of the emergence and history of farming societies and kingdoms of south-central Africa before AD1800.

Supervisor: Professor AG Morris (Human Biology)

Co-Supervisor: Professor JC Sealy (Archaeology)

In Biomedical Engineering:

Ronald Dendere

Thesis Title: *Hand X-ray absorptiometry for the measurement of bone mineral density on a slot scanning X-ray imaging system*

Ronald Dendere obtained a Bachelor of Engineering degree (with Honours) from the National University of Science and Technology in Zimbabwe, and an MSc in Biomedical Engineering from UCT.

Ronald Dendere's thesis describes methods for accurate measurement of bone mineral density (BMD) on a slot-scanning digital radiography system. It assesses the feasibility of using two detectors to acquire dual-energy X-ray images for measuring areal and volumetric BMD of the middle phalanx of the middle finger using dual-energy X-ray absorptiometry (DXA), and areal BMD using computed digital absorptiometry (CDA). A new method is suggested for measuring volumetric BMD, using basis material decomposition. Simulations are carried out to optimise the scanning parameters for maximal image quality at minimal radiation dose. A method for automatic identification of the target bone allows for automated initialisation of model-based segmentation. Active shape models are found to be more accurate than deformable models for this purpose. The accuracy of DXA-derived measurements is evaluated using ash mass from incinerated excised bones as a reference. The performance of the developed DXA system is also compared to that of a clinical DXA machine. The methods are shown to be suitable for phalangeal DXA and CDA measurements of BMD.

Supervisor: Professor T Douglas, (Biomedical Engineering, Human Biology)

Co-supervisor: Dr S Whiley, (Lodox Systems)

Lindie Du Plessis

Thesis Title: *An investigation of the integrity of two components of the cerebellar neurocircuitry involved in classical eyeblink conditioning in children prenatally exposed to alcohol: a magnetic resonance spectroscopy and functional magnetic resonance imaging study*

Lindie du Plessis has a chemical engineering degree from the University of Stellenbosch. She has been conducting research in Magnetic Resonance Imaging at UCT in the MRC/UCT Medical Imaging Research Unit since 2008.

Lindie du Plessis' thesis used magnetic resonance spectroscopy (MRS) and functional Magnetic Resonance Imaging (fMRI) to assess the effects of prenatal alcohol exposure on brain metabolism in the cerebellar deep nuclei and brain function in the cerebellar cortex, respectively. These are two critical elements of the cerebellar-brainstem circuitry that mediates eyeblink conditioning (EBC), a culturally-neutral Pavlovian learning paradigm shown previously to be severely impaired in children prenatally exposed to alcohol. MRS revealed that prenatal alcohol exposure was associated with poorer neuronal integrity as well as altered excitatory neurotransmission. Further, cerebellar brain regions involved in timed movements requiring millisecond precision in unexposed children showed reduced activation with increasing alcohol exposure. Although no direct association was found with EBC performance, these results point to altered metabolic levels in the deep nuclei and reduced functioning of several cerebellar cortical regions in children with Fetal Alcohol Spectrum Disorders, which could play a role in the impaired EBC performance seen in these children.

Supervisor: A/Professor EM Meintjes (Human Biology)

In Cell Biology:

*Jarod Ang Li

Thesis Title: *An investigation into the role of TBX3 in breast carcinogenesis and its regulation by the TGFβ1 signalling pathway*
Jarod Li obtained a BSc in 2006 and a BSc (Med) Honours in 2007 from UCT. In 2009 he registered for an MSc and later a PhD in cancer research.

Jarod Li's thesis focuses on exploring the role and regulation of the T-box transcription factor, TBX3, in breast cancer where it was found to be overexpressed. He shows that TBX3 plays a pivotal role in breast cancer migration and that silencing it could inhibit the aggressive nature of this cancer. Furthermore, he demonstrates that TBX3 is overexpressed in breast cancer due to transcriptional regulation by the TGFβ signalling pathway, and that TBX3 is key in mediating the anti-proliferative and pro-migratory roles of TGF-β1 in epithelial cells. Finally, Jarod Li shows that TBX3 mediates the anti-proliferative function of TGF-β1 through repressing transcription of its homologue, TBX2, which allows for the de-repression of p21 and a G1 cell cycle arrest. The findings of this PhD study are of great significance as it identifies TBX3 as a potential target for the development of novel breast cancer therapeutics.

Supervisor: A/Professor S Prince (Human Biology)

In Clinical Science & Immunology:
Samuel Ayaba Njikan
Thesis Title: *Correlates of risk of TB disease in infants with differential response to BCG vaccination*

Samuel Njikan obtained a Bachelor of Medical Laboratory Science (B.M.L.S Hons) from the University of Buea, Cameroon in 2006. Thereafter he joined UCT and went on to complete an MSc(Med) in Haematology. He performed his doctoral research at the South African Tuberculosis Vaccine Initiative (SATVI).

Samuel Njikan's thesis aims to identify prospective immune correlates of risk of developing tuberculosis (TB) disease following routine newborn BCG vaccination. It is critical to understand which immune responses induced by vaccination may be important to confer protection against TB. Previous work has shown that the immune response to BCG in different infants covers a wide range; some infants have high and others have very low T cell responses. Samuel Njikan has identified biomarkers that associate with these differential immune responses to BCG in healthy infants, using both hypothesis-driven and unbiased approaches. He then identifies T cell functions and a PBMC gene expression signature related to myeloid cells and inflammation, which are different in infants who have a stronger response to BCG vaccine and later progress to TB disease, compared to those who remain healthy. However, these prospective biomarkers of risk of TB disease could not be validated in another, independent cohort of infants.

Supervisor: Professor WA Hanekom (Paediatrics and Child Health)

Co-supervisors: Dr E Nemes and Dr TJ Scriba (Paediatrics and Child Health)

In Exercise Science:
James Craig Brown
Thesis Title: *Safer rugby through BokSmart? Evaluation of a nationwide injury prevention programme for rugby union in South Africa*

James obtained his BSc in Biochemistry and Physiology before obtaining his BSc(Med) (Hons) and MSc(Med) in Exercise Science from UCT. His PhD thesis was a joint project between UCT and VU University in Amsterdam, The Netherlands.

James Brown's thesis aims to evaluate the BokSmart programme: a nationwide injury-prevention programme for rugby. BokSmart was launched by the South African Rugby Union (SARU) in 2009, with its primary goal being to reduce the incidence of rugby-related catastrophic head and neck injuries in South Africa. The thesis evaluation uses both quantitative and qualitative methods to investigate not only catastrophic injury rates over time, but also player behaviour and coach and referee perceptions of the programme. The evaluation shows that nationwide catastrophic injury rates have already improved since the programmes' implementation. Player behaviour has also improved over this concomitant time period. While there was widespread positivity towards the programme, some of the coaches from high socioeconomic-status teams felt that the programme was a waste of their time. Based on these findings, suggestions have been made to BokSmart's implementers, the South African Rugby Union, so that they may optimise the effectiveness of this nationwide injury prevention programme for rugby.

Supervisor: Professor M Lambert (Human Biology)

Co-supervisor: Professor W Van Mechelen (VU University Medical Center: Amsterdam)

Dr E Verhagen (VU University Medical Center: Amsterdam); Dr C Draper (Human Biology)

Marilize Cornelle Burger
Thesis Title: *Genetic risk factors for carpal tunnel syndrome*

Marilize Burger obtained her BSc, BSc(Hons) and MSc degrees from the University of Stellenbosch. Her PhD research focused on a common overuse injury, carpal tunnel syndrome (CTS), which affects many people in occupational settings.

Marilize Burger's thesis investigates associations of DNA sequence variants (genetic factors) within several genes that have previously been shown to modulate risk of overuse tendon and ligament injuries as a result of participation in regular sport and exercise, with CTS, a common occupational overuse injury. Several DNA sequence variants within genes directly involved in the structure, maintenance and function of the extracellular matrix, an important component of connective tissues, are shown for the first time to also be associated with modulating the risk of CTS. Furthermore, this thesis identifies limitations in the current research on risk factors for CTS. The novel findings of this research highlight the possible important role that genetic factors have, at least in part, in the aetiology of CTS, specifically the development of pathology with Flexor tendons and other connective tissue structures within the carpal tunnel.

Supervisor: Professor M Collins (Human Biology)

Kevin Sean O’Connell
Thesis Title: *Investigation of selected collagen genes in exercise-related musculoskeletal soft tissue phenotypes*

Kevin O’Connell graduated with a BSc in Physiology and Genetics and a BSc(Med)(Hons) with distinction in Exercise Science from UCT. His PhD research emerged as a result of the internationally recognized seminal work by the UCT-based research team on the identification of genetic risk associated factors for common tendon and ligament injuries.

Kevin O’Connell’s thesis aims are (i) to investigate novel collagen gene DNA sequence variants for independent associations, and gene-gene interactions, with common musculoskeletal soft tissue (tendon, ligament and muscle) injuries, performance and other exercise-related traits, and (ii) to investigate the functional effects of the associated variants to determine the mechanism through which these variant may modulate the trait. The outcomes of his thesis highlight the role that collagens, which are important structural components of these tissues, may play in the aetiology of musculoskeletal soft tissue injuries, performance and other exercise-associated traits and provide potential markers to determine the inter-individual predisposition to these traits.

Supervisor: Professor M Collins (Human Biology)
Co-supervisor: Dr M Posthumus (Human Biology)

In Human Genetics:
Danielle Smith
Thesis Title: *Spinocerebellar ataxia type 7 in southern Africa: an epidemiological, molecular and cellular study*

Danielle Smith obtained her BSc, BSc(Med)(Hons) and MSc(Med) from UCT. She joined the Division of Human Genetics as an honours and then master’s student, where she began to pursue her interest in the inherited neurodegenerative disorders.

Danielle Smith’s thesis utilises three distinct approaches to study the neurodegenerative disease Spinocerebellar ataxia type 7 (SCA7) in southern Africa. SCA7 is a debilitating disease, where patients suffer from neurological deficits and degenerative blindness. An epidemiological investigation confirmed that there is an unusually high prevalence of SCA7 within the indigenous black African population of South Africa. Molecular analyses revealed that SCA7 families from South Africa, Namibia and Zambia share a founder effect, suggesting that the SCA7 mutation in southern Africa arose from a single common ancestor. The second aspect focussed on the implementation of a confirmatory molecular diagnostic test for SCA7, to be used within the National Health Laboratory Services diagnostic laboratory. Finally, induced pluripotent stem cell (iPSC) technology was investigated to establish a novel model of the retinal degeneration associated with SCA7. Together, these results have laid the groundwork for future SCA7 research projects, and it is anticipated that these will ultimately lead to better management, care and therapies for SCA7 patients on the African continent.

Supervisors: Professor LJ Greenberg (Human Genetics);
Professor SH Kidson (Cell Biology)

Nicholas Tam
Thesis Title: *Towards an improved understanding of the biomechanical implications and risk of injury of barefoot running*

Nicholas Tam has a BSc from the University of the Witwatersrand, Johannesburg in Physiology and Human Movement Science, and an honours and MSc(Med) in Exercise Science from UCT.

Nicholas Tam’s thesis aimed to investigate the evidence behind popular misconceptions about barefoot running. Barefoot running has been promoted as a way to reduce the risk of running-related injury. This occurred largely due to claims made by popular media and industry, and preceded clinical and scientific data supporting or refuting it. To address the unanswered questions, 3-D biomechanical, neuromuscular and metabolic data were collected during a barefoot running training programme. The findings suggest that both acutely and after training, certain individuals can be characterised as non- or negative-responders, since their biomechanics are altered in a potentially harmful manner. In contrast, some runners display an altered and potentially favourable running gait with associated reductions in collision forces. The thesis is the first to describe these runners in the hope that evidence based practical advice and recommendations can be developed in future, to identify and facilitate running success by reducing injury risk.

Supervisor: Dr R Tucker (Human Biology)
Co-supervisors: A/Professor JL Astephen Wilson (Biomedical Engineering, Dalhousie University, Canada), Professor TD Noakes (Human Biology)

In Medical Biochemistry:
Antonio Oladele Adefuye
Thesis Title: *The role of seminal plasma in the regulation of inflammation and inflammatory pathways in the cervix: potential for cervical cancer progression and HIV transmission in South African women*

Antonio Oladele Adefuye has an MBChB from Olabisi Onabanjo University, Nigeria and a MSc in Microbiology from the University of Fort Hare. Upon moving to Cape Town he embarked on his PhD studies at the MRC/UCT Receptor Biology Research Unit.

Antonio Adefuye's thesis aims to elucidate the intricate molecular mechanisms mediating the role of seminal plasma and seminal plasma prostanoids on pathways which regulate inflammation, tumorigenesis and HIV susceptibility in cervical cancers. Seminal plasma was recently found to regulate inflammation in cervical cancer by inducing the expression of pleiotropic pro-inflammatory cytokine IL-1 α . His research has identified PGE2 and EGF as ligands responsible for seminal plasma-mediated IL-1 α induction. Furthermore, he determined that the induction of IL-1 α by seminal plasma is via the activation of EP2/EGFR/PI3 kinase-Akt signaling pathways. In addition, he has shown that a few of the HIV co-receptors are up-regulated in cervical cancer and that seminal plasma up-regulates the expression of HIV chemokine co-receptor CCR5 in cervical cancer via the epidermal growth factor receptor and COX-1-prostaglandin E2 pathways. This study suggests that repeated exposure of neoplastic cervical epithelium to seminal plasma in sexually active women with cervical cancer could exacerbate the progression of the cervical cancer and increase the susceptibility to HIV infection.

Supervisors: Dr KJ Sales (Clinical Laboratory Sciences)

Co-supervisor: Professor AA Katz (Clinical Laboratory Sciences)

Lauren Beth Arendse
Thesis Title: *Exploring the effects of polymorphic variation on the stability and function of human cytochrome P450 enzymes in silico predictions and in vitro*

Lauren Arendse holds a BSc(Med) (Hons) degree in Medical Biochemistry from UCT. She has been studying towards a PhD degree at UCT in the Division of Medical Biochemistry since 2010.

Lauren Arendse's thesis lies Field of drug metabolism and is specifically concerned with understanding and predicting the effects of polymorphic variation in human cytochrome P450 (CYP450) genes on the functionality of the encoded CYP450 drug metabolizing enzymes. Lauren Arendse's thesis thus describes the in silico analysis of over 300 non-synonymous single nucleotide polymorphisms, found across nine of the major human drug metabolising CYP450 isoforms, focusing on their roles in modulating substrate access channels and protein-drug interactions, as well as their effect on the stability of the individual CYP450 enzymes. In addition, this thesis describes experimental verification of the predicted functional effect for a number of these polymorphisms. Through this integrative computational and experimental study, Lauren Arendse creates a cytochrome P450 polymorphic variant map that will find utility in predicting the functional effect of uncharacterised variants on drug metabolism.

Supervisor: Professor JM Blackburn (Division of Medical Biochemistry)

Lamech Malagho Mwapagha
Thesis Title: *The role of viral sequences in genetic aberrations and malignant transformation*

Lamech Mwapagha obtained a BSc and MSc in Medical Virology from Jomo Kenyatta University of Agriculture and Technology in Kenya and a Certificate and Diploma from the Technical University of Mombasa, Kenya. He joined UCT in 2010 after being awarded a PhD fellowship by the International Centre for Genetic Engineering and Biotechnology (ICGEB).

Lamech Mwapagha's thesis aims to better understand the aetiology and molecular mechanisms involved in the development of oesophageal cancer. He used an adenoviral vector to identify genes required for initiation of cellular transformation, and shows that both the low risk HPV11E6 and the high risk HPV18E6 exploit the NF κ B signalling pathway in predisposing normal cells toward malignancy. He analysed the whole genomes of four oesophageal cancer patients and identified several gene deletions and the integration of viral sequences (eg HHV6A and HERV-K113) as aetiological agents associated with OSCC pathogenesis. This study makes a significant contribution towards our understanding of the mechanisms involved in carcinogenesis. It also provides for a better understanding of the underlying mechanisms that may ultimately lead to the development of more effective therapeutic interventions for oesophageal squamous cell carcinoma.

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

Julian Sithembekile Peters
Thesis Title: *Comprehensive proteomic profiling of clinically relevant strains of Mycobacterium tuberculosis*

Julian Peters holds a BSc(Hons) in Biotechnology from the University of the Western Cape. She has been studying towards a PhD degree at UCT since 2010 in the Division of Medical Biochemistry.

Julian Peters' thesis lies Field of tuberculosis disease and is specifically concerned with identifying the molecular origins of observed differences in pathogenicity and virulence between clinical isolates of the causative agent, Mycobacterium tuberculosis. Julian Peters' thesis thus describes the determination and differential, quantitative analysis of the expressed protein complement (the 'proteome') of seven closely related pathogenic or non-pathogenic mycobacteria species. Through this mass spectrometry-based, cross-species proteomic study, Julian Peters identifies a set of significantly differentially-expressed proteins that collectively describe a novel, molecular portrait of an efficiently transmitted pathogen. The methods and data that she develops in this study will in addition enable the verification of the presence or absence of the specific M. tuberculosis proteins in any sample type and may also inform new approaches to combating this ancient disease.

Supervisor: Professor JM Blackburn (Division of Medical Biochemistry)

Nelusha Shunmoogam-Gounden
Thesis Title: *An investigation into the molecular mechanisms induced by derivatives of natural products in oesophageal cancer*

Nelusha Shunmoogam-Gounden has a BSc and BSc Hons (cum laude) from UWC, and embarked on her PhD at UCT to explore her interest in using natural products derived from plants as potential chemotherapeutic agents for the treatment of cancer.

Nelusha Shunmoogam-Gounden's thesis characterises and compares the activity and cell death pathways induced by derivatives of a natural product isolated from a plant used in some traditional medicine systems. She demonstrates that the novel derivative synthesised at UCT killed cancer cells more effectively than the parental compound, and the first generation derivatives. Her main observation is that the novel derivatives activated a cell death pathway that involved autophagy, unlike the first generation derivatives that inducted apoptosis as a cell death pathway. Her thesis provides a detailed characterisation of the autophagic pathway activated by the novel derivative. Her work also indicates that the novel derivative synthesised at UCT was more active against chemoresistant cancer cell lines than traditional chemotherapeutic agents, an observation that requires further investigation.

Supervisor: A/Professor DT Hendricks (Medical Biochemistry)
Co-supervisor: Professor K Chibale (Chemistry)

In Medical Virology:

*Melissa-Rose Hilda Abrahams
Thesis Title: *The transmitted HIV-1 subtype C: characterization of the transmitted/founder full-length virus genome and the influence of early immune selective pressure on virus replication*

Melissa-Rose Abrahams obtained her BSc from UCT in 2001 majoring in Microbiology and Biochemistry. She pursued postgraduate studies at UCT, obtaining an honours degree in Clinical Science and Immunology (2002) and an MSc in Medical Virology (2005). She then served as a Scientific Officer in the Division of Medical Virology for eight years and became an academic staff member in 2014 while completing her PhD.

Melissa-Rose Abrahams' thesis represents a detailed study of five HIV-infected South African women, and builds on a large HIV transmission study of South African women. The five women differed in their clinical disease progression and included one woman who was able to control viral replication and another with a uniquely rapid disease progression. The thesis characterises the virus that established clinical infection in each woman and how the virus was altered by early immune responses. The study found that early immune responses are rapid and complex, and that some early immune-driven mutations reduce the ability of the virus to replicate while others enhance replication capacity. This work informs the design of HIV vaccines by highlighting the dynamic nature of the interaction between the virus and early immune responses.

Supervisor: Professor C Williamson (Clinical Laboratory Sciences)

Kristy-Maree Offerman
Thesis Title: *Investigation of Local South African Avipoxviruses as Potential Vaccine Vectors*

Kristy Offerman has a BSc from the University of Stellenbosch and a BSc(Med)(Hons) from UCT. At the end of 2012, she upgraded her MSc to a PhD in the Division of Medical Virology, Department of Clinical Laboratory Sciences at UCT.

Kristy Offerman's thesis aims to characterise novel South African avian poxviruses and to determine their potential as vaccine vectors. Avipoxviruses are large, genetically diverse DNA viruses which are particularly desirable for use as vaccine vectors as a result of their excellent safety profile and host-range restriction. The thesis describes the basic characterisation of eight novel avipoxvirus isolates and the in depth analysis of one of these isolates from a Feral Pigeon. The analysis includes the sequence of the whole genome, growth and morphogenesis studies as well as the investigation of the induction or inhibition of apoptosis (cell death) in different cells. This novel virus is then compared to other host-restricted poxviruses with respect to up- and down- regulation of host gene expression in a mouse model. The work presented here provides a basis from which to expand and further investigate novel African poxviruses in the development of additional vaccine vectors.

Supervisor: Professor AL Williamson (Clinical Laboratory Sciences)

Co-supervisor: Dr N Douglass (Clinical Laboratory Sciences)

In Medicine:
Brian William Allwood
Thesis Title: *Tuberculosis-associated obstructive pulmonary disease: A clinical, radiological and pathophysiological study of the contribution of previous pulmonary tuberculosis in a community-based study of chronic obstructive pulmonary disease*

Brian Allwood has an MBChB from the University of the Witwatersrand, an MPH from UCT, Diplomas of Child Health and Anaesthetics and a Certificate in Pulmonology from the Colleges of Medicine of South Africa. He is a Fellow of the College of Physicians of South Africa, and a specialist pulmonologist in the Department of Medicine.

Brian Allwood's thesis investigates the association between previous (healed) pulmonary tuberculosis and chronic airflow obstruction (CAO) in adults; its natural history, mechanisms responsible for functional impairment, and potential treatments. A prevalence survey performed in adult residents of two low-middle-income suburbs of Cape Town in 2005 (BOLD study) revealed a very high prevalence of CAO, strongly associated with previous tuberculosis. Dr Allwood performed a follow-up study 5 years later, reviewed the diagnosis and clinically evaluated 107 subjects using comprehensive lung function testing, quantitative high resolution computerized lung scans and a trial of treatment. He identified structural and functional features in tuberculosis-associated CAO that justify its designation as a distinct phenotype of Chronic Obstructive Pulmonary Disease, for which the term Tuberculosis-associated Obstructive Pulmonary Disease is proposed. His research findings have important applications in epidemiologic research, and global significance for public health and patient care in countries with a high burden of tuberculosis.

Supervisor: Emeritus Professor ED Bateman (Division of Pulmonology, Medicine)

Gerald Jerome Maarman
Thesis Title: *Melatonin as a novel cardioprotective therapy in pulmonary hypertension*

Gerald Maarman completed a BSc(Hons) and an MSc in Physiology at the University of Stellenbosch. He joined the Hatter Institute for Cardiovascular Research in Africa in 2010 as a doctoral student.

Gerald Maarman's thesis investigates melatonin as a novel therapy against pulmonary hypertension. This disease is characterised by elevated pulmonary arterial pressure which leads to right ventricular hypertrophy and failure. The mechanism involved in the pathophysiology of the disease remains unclear but it is suggested that an oxidative stress may trigger cardiovascular dysfunction associated with the disease. To date, there is no efficient therapy against the disease and novel therapies are urgently needed. In his PhD project, Gerald Maarman used an animal model of pulmonary hypertension to demonstrate that melatonin, known as a powerful antioxidant, confers cardiovascular benefits against pulmonary hypertension. As melatonin is inexpensive, safe (no side effects) and already available out of the counter in many countries, his findings strongly suggest that melatonin should be considered as a novel preventative/curative therapy to limit cardiac dysfunction in patients with pulmonary hypertension.

Supervisor: A/Professor S Lecour (Medicine)

Co-supervisor: Professor K Sliwa (Medicine)

In Paediatrics:

Claudia Liesel Gray

Thesis Title: *The prevalence and patterns of IgE-mediated food sensitisation and allergy in South African children with atopic dermatitis*

Claudia Gray has an MBChB from UCT, an MSc from the University of Surrey, Diplomas in Allergy and Nutrition from the University of Southampton, and is a specialised paediatrician and subspecialist allergologist. Her interest in food allergy and eczema in children stimulated the research on which her PhD is based.

Claudia Gray's research is on South African children with atopic dermatitis, who are investigated for IgE-mediated food allergy. This is the first study in South Africa to utilise food challenges, component resolved diagnostics and microarray technology in food allergy diagnosis. Prior to this study, it was believed that food allergy is rare in South Africa, particularly in Black African subjects, even in children with atopic dermatitis who are at higher risk for food allergy. The study however showed a high prevalence of sensitisation and allergy equivalent to that in affluent countries. Ethnic differences are evident with black Africans demonstrating lower allergy rates despite similar sensitisation rates, indicating that other factors are protective against manifesting with food allergy in this subgroup. The thesis also suggests new values for more accurate interpretation of laboratory tests for food allergy diagnosis in this population that differ according to ethnicity. The findings in her research thus have practical implication in allergy diagnosis and indicate the possible rise in food allergy in South Africa, which could become a significant public health burden.

Supervisor: A/Professor M Levin (Division of Allergy and Asthma, Paediatrics)

Co-supervisor: Dr G du Toit (Division of Allergy, Paediatrics, Evelina Children's Hospital, London)

In Psychiatry:

Tara Carney

Thesis Title: *Evidence-based intervention services for substance-using and adolescents with delinquent-type behaviour in Cape Town, South Africa*

Tara Carney holds a BA and an MA (Psychological Research) from UCT. She is currently a senior scientist in the South African Medical Research Council's Alcohol, Tobacco and Other Drug Research Unit. Her main research areas focus on interventions that address risk behaviours among adolescents and people in emerging adulthood.

Tara Carney's thesis is one of the first studies to investigate how to address both adolescent substance use and delinquent-type behaviours. Using a pre-existing data set she examined the association between and trajectory of substance use and delinquent-type behaviours among school-going adolescents in Cape Town. Next she compared the psychometric properties of three substance use screening instruments to identify one suitable for use in the local context. Third she tested and adapted assessment tools for those adolescents who screened positive for substance use and delinquent-type behaviour. Following this, she conducted a systematic review to identify a suitable evidence-based brief intervention to address these dual behaviours. Having identified an intervention she used qualitative methods with service providers and adolescents to test the ecological validity of the intervention for Cape Town communities. Qualitative methods then guided the adaptation of the intervention to the local cultural context. The final result is a screening, brief intervention and referral to treatment (SBIRT) package for substance use and delinquent type behaviours that is ready to be tested for efficacy.

Supervisors: A/Professor B Myers (Psychiatry and Mental Health)

Co-supervisor: Professor J Louw (Psychology)

Marie-Claire van der Westhuizen
Thesis Title: *Mental disorders and violence-related injuries: prevention opportunities in emergency centres*

Marie-Claire van der Westhuizen has an MBChB degree from the University of Stellenbosch. Her interest in mental health and injury prevention was awakened during her clinical experience in rural and urban hospitals in South Africa and England. Her research career began in 2011 with an opportunity from the Phodiso Programme.

Marie-Claire van der Westhuizen's thesis explores opportunities for addressing mental health and preventing re-injury in South African emergency centre patients presenting with violence-related injuries. She uses a public health framework to describe the prevalence of mental disorders and recurrent violence-related injury, highlight certain risk factors (such as alcohol abuse and witnessed violence) and identify tools for eliciting mental health and substance abuse factors. She conducted a cross-sectional emergency centre study recruiting injured patients to achieve this. Furthermore, with a view to future interventions in these settings she reviews the evidence for appropriate interventions for preventing re-injury utilising Cochrane systematic review methodology. Her thesis highlights the need for emergency centre interventions, identifies appropriate screening tools and provides a background for future intervention efforts in injured emergency centre patients.

Supervisor: Dr K Sorsdahl (Psychiatry and Mental Health)

Co-supervisor: Professor DJ Stein (Psychiatry and Mental Health)

In Public Health:

Morna Bridget Cornell

Thesis Title: *The evolution and effectiveness of the South African antiretroviral therapy programme*

Morna Cornell has an MPH (Epidemiology) from UCT. Her doctoral research arose out of her long history of human rights activism for people living with HIV/AIDS and her subsequent involvement in large HIV research projects.

Morna Cornell's thesis describes how the South African antiretroviral therapy (ART) programme has evolved over ten years and assesses its effectiveness. Although South Africa has a high HIV prevalence and has the largest ART programme worldwide, national data on key patient outcomes including mortality and loss to follow-up are limited. The thesis presents novel evidence regarding the frequency and determinants of programme outcomes including death and loss to care. While early ART programmes focused primarily on patient mortality, increasingly the central challenges facing these services relate to implementation and coverage. Looking forward, the programme needs to deliver services to patients earlier in the course of HIV disease, focusing in particular on men and older individuals. Additional interventions are required to promote retention of patients in lifelong chronic care while maintaining effective systems for programme monitoring.

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

Joanne Ruth Hunter Adams
Thesis Title: *Factors influencing migrant maternal and infant nutrition in Cape Town, South Africa*

Joanne Hunter Adams has a BA from Wellesley College, an MA from University of the Witwatersrand and an MPH from Boston University. Joanne has worked in refugee resettlement since 2002, and her doctoral research evolved out of an interest in migrant health in South Africa.

Joanne Hunter Adams' thesis aims to better understand the ways migrant mothers make decisions for their own nutritional health and that of their infants in the migration context. Through in-depth interviews and focus groups, this study examines three (Somali, Congolese and Zimbabwean) Cape Town migrant populations' understanding of nutrition and the ways that the absence of extended family, and social capital more broadly, related to migrant nutrition. During pregnancy, women described consuming energy-dense, nutrient-poor foods, which has implications for women's long-term health and the health of their children. After birth, infant feeding choices were impacted by work, and women's sense of the loss of household help. In connecting migrants' lived realities to their nutritional decisions during pregnancy and infancy, the study identifies the potential role of public health policy makers and health care providers in improving migrant maternal and infant nutrition, including advocating for medical interpretation.

Supervisor: A/Professor HA Rother
(School of Public Health and Family Medicine)

Co-supervisor: A/Professor L Myer
(School of Public Health and Family Medicine)

*Petal Myrtle Petersen Williams
Thesis title: *Maternal alcohol and other drug (AOD) use among pregnant women attending Midwife Obstetric Units (MOUs) in the Cape Metropole, South Africa*

Petal Petersen Williams has a BA, BSocSc(Hons) and MA from UCT. Her doctoral work emerged as a result of her work experiences in the Alcohol, Tobacco and Other Drug Research Unit of the South African Medical Research Council, where she has been a member of staff since 2006.

Petal Petersen Williams' thesis aims to determine the extent of alcohol and other drug (AOD) use and understand substance use practices among pregnant women attending public sector antenatal clinics in Cape Town and to inform efforts aimed at making services more responsive to addressing substance use among their patients. Despite evidence that maternal substance use in pregnancy poses health risks for women and their babies, little is known about the nature and extent of AOD use among this population and the feasibility and acceptability of implementing interventions in primary healthcare settings in South Africa. Study findings suggest there are high levels of substance use among pregnant women attending public sector antenatal clinics. There is a need for routine screening for AOD use and appropriate responses. The utility of screening, brief intervention and referral to treatment for addressing substance use is supported, but consideration will need to be given to addressing a variety of barriers that have been identified.

Supervisor: Dr C Mathews (Public Health and Family Medicine)

Co-supervisor: Dr C Parry
(Medical Research Council)

MISSION STATEMENT OF THE UNIVERSITY OF CAPE TOWN

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

Foundation statement underpinning the mission statement

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

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

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

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

In advancing UCT as an Afropolitan university, we will:

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

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

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

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We set a great store by our links with our alumni, and indeed the links alumni have with each other. We promise that we will be in touch, and ask you in turn to let us know not only your current contact details but also, from time to time, something of your lives and where you are in your careers.

*Updates can be done on the web – <http://www.uct.ac.za/dad/alumni/update/>
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