### **FACULTY OF HEALTH SCIENCES**

### **ORDER OF PROCEEDINGS**

Academic Procession.

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

The Presiding Officer will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Master of Ceremonies.

The Master of Ceremonies will present the Social Responsiveness Award to the South African Tuberculosis Vaccine Initiative.

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

The Presiding Officer will congratulate the new graduates and diplomates.

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

The Presiding Officer will dissolve the congregation.

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

### **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

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

The degree may be awarded with

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 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.

### SOCIAL RESPONSIVENESS AWARD

The Social Responsiveness Award provides an institutional signal to members of the University that social responsiveness is an important priority.

#### SOUTH AFRICAN TUBERCULOSIS VACCINE INITIATIVE (SATVI)

The South African Tuberculosis Vaccine Initiative (SATVI) views social responsiveness (SR) as a core principle and has developed a diverse portfolio of community engagement programs alongside its clinical research agenda. SATVI has been able to draw on its diverse staff complement, including academics and clinical research workers, to access resources within the University of Cape Town, the broader academic community, and agencies at local, provincial and international level, to fulfil its SR goals. The intention to work closely with communities in the Cape Winelands area as critical role players in the fight to end the tuberculosis (TB) epidemic is central to SATVI's research agenda.

Highlights of SATVI's SR initiatives include the *Carina's Choice* drama production and comic book, which tell the story of a mother who decides to enrol her baby in a TB vaccine trial. These productions were developed with the input of the community during structured engagements and featured a travelling drama performed by school learners at local high schools, who used the comic book to develop the script.

The *Kick TB Schools Program*, a school-based TB awareness programme, was aimed at primary school learners using catchy songs, dances and educational videos to teach learners the signs and symptoms of TB, in order to improve their knowledge and promote a change in behaviour, attitude and perceptions about TB. A resulting *Kick TB* poster competition created a platform for learners to express themselves creatively about TB through art and writing.

The "TB under the Spotlight" Science Engagement, a collaboration with the Division of Molecular Biology and Human Genetics at Stellenbosch University, the Provincial Department of Education and UCT Anthropology Department, resulted in a travelling science exhibition that was taken to high schools in the Cape Winelands area. This interactive exhibition aimed to demystify TB, promote a career interest in TB research, and provide research scientists with an opportunity to engage with learners about TB and the work that they do.

Through *World TB Day* activities, SATVI has managed to draw upon a range of international, national and local stakeholders to raise awareness about TB in the Boland district. These activities have included a *Wellness Day* featuring fun races, soccer, traditional games, TB screening and a *Public Library TB Awareness Programme*, which was held at local libraries.

A drama production about TB awareness entitled *Lienkie's Lungs*, funded by a Wellcome Trust International Engagement Award, was developed through a participative process involving the local community. The *Lienkie's Lungs* travelling stage production was performed in local communities and live on national television. The drama was complimented by a portable graffiti wall mural, which was developed in a unique street art collaboration with the local community.

The organisation wishes to acknowledge the UCT Drama and Anthropology Departments with which SATVI has developed a strong relationship over the years collaborating around engagement programs and research.

SATVI's portfolio of community engagement activities has made a substantial contribution to knowledge production about community engagement within TB research, and has resulted in a number of academic outputs, including postgraduate dissertations, peer-reviewed journal articles, a book chapter, and poster and oral presentations at local and international conferences. SATVI has been the recipient of two Wellcome Trust International Engagement Grants. However, the community engagement initiatives have been sustained primarily by an unwavering commitment by SATVI leadership and staff to develop innovative ways of engaging with the communities within which they work, so that together we can better fight TB.

# NAMES OF GRADUANDS/DIPLOMATES

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

#### 1. FACULTY OF HEALTH SCIENCES

Interim Dean: Professor C Williamson

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

# ADVANCED DIPLOMA IN COSMETIC FORMULATION SCIENCE

\*Shannon Aimee Attwell Keikanne Lekhatlanya Vuyisa Lose Vuyokazi Namntu Humbulani Ravhura

# HIGHER CERTIFICATE IN DISABILITY PRACTICE

- \*Lezel Abdul Irene Cronje
- \*Ntombovuyu Daniso
- \*Thembisa Grace Jordan Sophie Kikwaki Mukala
- \*Zanewonga Qhwesha Sakiru Oyedele Taliat

### POSTGRADUATE DIPLOMA IN ADDICTIONS CARE

Mareldia Achmat Faizah Bhayat Tasneem Dalwai \*Mehnaaz Essop Shaakirah Floris Zandri Gutteridge

Justin Bartlett Nurse

- \*Janet Pretorius (with distinction)
- \*Faizel Waggie

### POSTGRADUATE DIPLOMA IN ADVANCED MIDWIFERY AND NEONATAL CARE

\*Liezl Anne Fourie Oliver Anna Irene Mbuh Daisy Sesing

# POSTGRADUATE DIPLOMA IN CHILD CRITICAL CARE NURSING

Galiema Abrahams
Michelle Janine Clarke
Khanyiswa Gingxana
Hilda Khupane
Zolani Mathonsi
Zandile Charlynn Mbambo
Yogandrie Moodley (with distinction)
Esayvani Naicker
Anna Susanna Smuts
Zandré Urtel (with distinction)

# POSTGRADUATE DIPLOMA IN CHILD NURSING

Ncunyiswa Bashe
Marietta Elaine Booys
Anthea Cecilia Davids
Nomaphuthukezi Precious Dyakophu
Fredrika Nanghali Tweufilwa Hamutoko
Cornelia Ingrid Köstner
Notobeko Veronica Kula
Sakhikhaya Makanda
Vuyokazi Eunice Mpampiri
Victoria Vuyiswa Nonkwelo
Roxanne Rooy
Yvonne Simango
Esmerelda Alicia Whyte

### POSTGRADUATE DIPLOMA IN CLINICAL PAEDIATRIC HAEMATOLOGY AND ONCOLOGY

\*Shamsudeen Mohammmed

### POSTGRADUATE DIPLOMA IN CLINICAL PAEDIATRIC NEPHROLOGY

\*Shehnaaz Yunus Akhalwaya \*Ozohu Asmau Aliyu

### POSTGRADUATE DIPLOMA IN CLINICAL PAEDIATRIC PHYSIOTHERAPY

\*Dorothy Ekua Adjabu Precious Madzimbe

#### POSTGRADUATE DIPLOMA IN COMMUNITY AND GENERAL PAEDIATRICS

\*Vanessa Comley (with distinction)
Ntodeni Thelma Magidimisa
\*Tin Tin Win

# POSTGRADUATE DIPLOMA IN COMMUNITY EYE HEALTH

\*Aubrey Jerome Mankhaka Banda \*Kelvin Graidon Mbuya Tatowela Boipelo Mmoloki Precious Pelonomi Moacwi \*Stanley Chukwudi Onyemelonu \*Victor Opoku-Yamoah

# POSTGRADUATE DIPLOMA IN DISABILITY STUDIES

Bongiwe Veronica Buzi
Wongani Chavula
Noluvo Jaceni
Michael Walter Mkhize
Lesego Irene Modutle
Mokati Samuel Moledi
Gillian Emily Moses
\*Christa Preston (with distinction)
Chantal Samuels (with distinction)
Pearl Tukwayo
Thulani Samuel Tshabalala

Zuleikha Abrahams

# POSTGRADUATE DIPLOMA IN FAMILY MEDICINE

Belinga Patrick Bongwalanga Vera Kai Gavor \*Gaynor Helen Grace

# POSTGRADUATE DIPLOMA IN HEALTH ECONOMICS

\*Ibtisaam Benzoin (with distinction)

- \*Alan Theodore Crozier (with distinction)
- \*Dyana Davids (with distinction)
- \*Ntombizethu Nicole Dumakude
- \*Babalwa Dunga
- \*Pamela Mutsa Gwatidzo Dipolelo Hadas Mahape Zanunisa Majiet-Salie
- \*Mashilo Christopher Maloba Kgabo Ambros Mashishi
- \*Mashofong Mamosa Matabane Anneli Gretchen Mazibuko
- \*Nabilah Mohamed Amod Mathabo Mosebjadi Mohlatlole
- \*Mphafudi Sanetta Mosena
- \*Phumla Dumile Motsa
- \*Hebron Jacob Mtimkulu

Victor Ndanda

Maxwell Solomuzi Ngcobo Nonkululeko Zintle Nkomo

Koketso Jane Phetlhe (with distinction)

Vernita Jennilee Reid

\*Dieter Friedrich Schlodder Hilton Tommy Stevens

### POSTGRADUATE DIPLOMA IN HEALTH PROFESSIONAL EDUCATION

\*Sophie Alexandra Mary Billington James Willougby Burger (with distinction) Wendy Anne Burgers \*Hilja Hambeleleni Eelu

Ayanda Gcelu

Nadine Chrystal Peffer

### POSTGRADUATE DIPLOMA IN HEALTHCARE TECHNOLOGY MANAGEMENT

- \*Mekdes Seyoum Abebe
- \*Genet Tadese Aboye (with distinction)
- \*Masreshaw Demelash Bayleyegn

Nyameko Leon Bosman

Yushavia Govender (with distinction)

Sinenhlanhla Gumede

Mogammad Johnstone (with

distinction)

Mancha Theodora Matjila Maanodivhambele Mphigalale

Linah Nilsa Nsimbini

- \*Primrose Radebe
- \*Rudzani Tshilidzi Ramabulana
- \*Selam Belachew Tegegn

#### POSTGRADUATE DIPLOMA IN INTERDISCIPLINARY PAIN MANAGEMENT

Gillian Jennifer Bedwell (with distinction)

- \*Erwann François Yannick Fabre Linda Elizabeth Hiemstra Gillian May Jooste-Coetsee (with distinction)
- \*Martin Allen Khoury
- \*Andrea Kirsten Linser
- \*Rukaiya Mowzer
- \*Rubendren Naidoo
- \*Callan Schroeder (with distinction) Margaretha Charlotte Smal Louis Smit Simone Steyn
- \*Rogier Remmelt Johannes Van Bever Donker

# POSTGRADUATE DIPLOMA IN MATERNAL AND CHILD HEALTH

\*Victoria Munthali

# POSTGRADUATE DIPLOMA IN NEPHROLOGY NURSING

\*Shanaaz Benjamin
Barati Jeanette Keitlhabile
Tumiso Klaas Kekana
Anneline Lloyd
Sbusiso Blessing Magubane
Puseletso Clara Maphela
Mothokoa Melida Masela
Tsholofelo Benjamin Mashapa
Molobane Ivy Matonya
Olebogeng David Mosadi
Sthokozile Mary-Domica Mpengu
Thandi Poppy Mtshazo
Lufuno Zacharia Musetha
\*Mthetheleli Emmanuel Nzuza
Gladys Nompumelelo Qumpula

Selematsela Seloma

Ncamisile Sishi Sishi

Ntombenhle Priscilla Zondi

# POSTGRADUATE DIPLOMA IN OCCUPATIONAL HEALTH

\*John Raymond Beneke Remotsaletswe Boithamako (with distinction) Laurel Anne Giddy (with distinction)

- \*Matthew Peter Grant
- \*Ashley Ivor Hendricks (with distinction)

Themba Innocent Lokothwayo Nyembo Frederick Maghoma Puseletso Maud Maloke

Mthobeli Mapeleba

\*Joseph Matare

\*Nondumiso Matiwane Zwakala (with distinction)

Anusha Poomanie Moodley

Marothi Phahlane (with distinction)

\*Theophil Wilfred Shangali (with distinction)

\*Sandra Lee Sutherland (with distinction)

\*Alton Thomas

Max Peter Winkler (with distinction)

# POSTGRADUATE DIPLOMA IN PALLIATIVE MEDICINE

Yvette Gay Andrews

Lindi Bester (with distinction)

- \*Liesl Botha (with distinction)
- \*Mohamed Anwar Bulbulia
- \*Catherine Mary Burnett

Allan John Donkin (with distinction) Ethra Du Toit (with distinction)

\*Joy Lorna Fredericks

\*Priya Gajjar (with distinction) Rene Geldenhuys (with distinction)

Lyndal Gibbs (with distinction)

\*Yasmin Goga (with distinction) Alice Audrey Gourrah

Renee Barbara Hill

\*Linley Avant Holmes

\*Denise Rose Huxham

Manda Kanka

Nivedita Kesaru

Anthony Peter Moll (with distinction)

Benita Linda Moyo

Faniso Mudenda

\*Alexis Ntumba

Francis Okelo Ooko (with distinction) Keitumetse Raadt (with distinction)

\*Mfanelo Sobekwa

\*Leana Spies (with distinction)
Porcia Kim Williams

### POSTGRADUATE DIPLOMA IN PESTICIDE RISK MANAGEMENT

- \*Constance Baey Kum Epse Cheghe
- \*Lesten Piyo Banda
- \*Maryben Kuo Chiatoh

\*Precious Hopkins Chizonda Molebatsi Mlungisi Florah Malungane Lindile Masinyana

\*Adeola Ometere Oyelade

# POSTGRADUATE DIPLOMA IN TB-HIV MANAGEMENT

\*Ivana Beesham (with distinction)

\*Odimula Epule

\*Ntokozo Qiniso Gama

\*Gwinyai Kadenge (with distinction)

\*Godwin Mtetwa Mtetwa Kabuya Richard Mwamba \*Hlobisile Nikiwe Simelane

\*Theesan Ananda Vedan

### DEGREE OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

Ilmondo Chandré Allies Anisha Chibba Ivan Joshua Daniels Luzuko Mngoma Kgomotso Julian Mrwata Cheslin Rogers

Tutula Nomagcaleka Singata

# DEGREE OF BACHELOR OF SCIENCE IN AUDIOLOGY

\*Kusasalethu Solethu Mlambo

# DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

\*Rivoningo Baloyi

DEGREE OF BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY

Buko Toyi

# DEGREE OF BACHELOR OF SCIENCE IN PHYSIOTHERAPY

Ethan Jonathan Marais

# DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS

In Bioinformatics:

Emmanuel Adonyo

Gwendoline Arendse (first class)

\*Bruce Maximillian Dickie

\*Loratoeng Mpolokeng

\*Tiana Carina Schwab (first class)

In Biological Anthropology:

Athi Baliso (first class)

Bronte Robyn Davies (first class)

In Clinical Pharmacology:

Ana Kuhar (first class) Andisiwe Malo (first class) Somila Mateza (first class)

Yashara Ryan Phiwe Zuma

In Forensic Genetics:

Olwethu Faku

In Human Genetics:

Megan Loraine Campbell (first class)

Thato Judith Kgopodithata

Caitlin Mary McIntosh (first class)

Nicole Emma Midgley (first class)

Precious Kedibone Moloi

\*Chandre Kelly Oosterwyk

In Infectious Diseases and Immunology:

Michelle Colleen Barboure (first class)

Abulele Bekiswa

Kate Francis Bergh (first class)

Namhla Bhenxa

Ntombifuthi Joyce Blose Christen Da Costa (first class) Liam Philip Devenish (first class)

Lesley Kgwale

Micaela Lurie (first class)

Temhlanga Phindubuhle Mndzebele

Thembisa Monki

Temwa Dango Mwambene Saiyukthi Naidoo (first class)

Gillian Ophelya Nondumiso Ndhlovu

(first class) Keletso Phohlo

Atondaho Angelah Ramudzuli

In Medical Biochemistry:

Claire Bellis (first class)

Rufaro Savior Chikanya (first class) Stephanie Fillmore (first class)

Chelene Ganz (first class)

Sinalo Gqunu Azraa Khan Don Tanisen Maisels

Melissa Lauren Marx

\*Thandeka Thobeka Mazubane Mbalentle Cassandra Mbambisa

Abalentle Cassandra Mbambis

(first class)

Anathi Ngxakeni

Nakkita Harisha Lungoomeah Pillay

(first class)

In Medical Cell Biology:

\*Lauren Eve Beghin (first class)

\*Prerna Gowreesunker (first class)

Gloria Luhanga

Justine Dominique Van Greenen (first

class)

In Physiology:

Tariro Alfa Chatiza (first class)

Joshua Hughes Gullan (first class)

Peter Andrew John Hudson (first class)

Keyoma Kriel

Nicholas William Hickman Loxton

(first class)

Nosipho Busisiwe Masina

Anthony Hau Yu Ngoi (first class)

Ian Simon Olivier (first class)

Sasha Tinelli (first class)

Carla Grace Van Niekerk

In Radiobiology:

Claire Mary Butters (first class)

### DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS IN BIOKINETICS

Nur Armino (first class)

Batsheva Channa Brand

Jana Burger (first class)

\*Nicolas Ricardo Danieli (first class)

Nicola Kate Hamann

Samantha Rae Knobel (first class)

Micaela Anastasia Loots

Kelsey-Leigh Netherton

Justin Pienaar

\*Chanda Ramires Ponce

Danell Ras

Hlalefo Pallo Senoamali

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS IN DIETETICS

Yuri Bhaga Michelle Bowien Kimberleigh Jane Brody \*Amy Burger Tayla Kyle Chin Rumbidzai Chituwu Zandalee Clifford Alicia Coetser Calanthe Amica Frost Justine Lisa Hamann (first class) Courtney Paige Heathcote Tlholohelo Elizabeth Makae Charné Meaker Kelly Nicole Rossouw Yasmine Rostom \*Mia Smith

\*Deone Van Rooyen

DEGREE OF BACHELOR OF MEDICAL SCIENCE HONOURS IN EXERCISE SCIENCE

\*Luqmaan Adamson (first class) Megan Jacqueline Anley (first class) \*Kirsten Clair Flanagan (first class) \*Christina Helena Geromont (first class)

\*Vincent Mark Meintjes

\*Nicholas William Matthias Notten \*Mikaela Watson (first class)

\*Adrian Steven Withers (first class)

DEGREE OF MASTER OF MEDICINE

In Anaesthesia: \*Jacques Rodrigues

In Clinical Pharmacology: Rulan Griesel (with distinction in the dissertation)

In Medicine:

\*Kenneth David Crombie (with distinction in the dissertation)

\*Thania Kahn

In Nuclear Medicine: Stuart Setjhaba More

In Paediatric Surgery:

\*Elmarie Van Der Merwe (with distinction in the dissertation)

In Paediatrics: \*Elizabeth Hoffman \*Grace Thangam Mathew \*Phindile Zandile Mteshana

In Pathology (Clinical): \*Michelle Bosman

In Psychiatry: Robin Scheepers Carmen Ilse Vlotman

In Radiation Oncology:

\*Alison Elisabeth Cox (with distinction in the dissertation)

In Radiology:

\*Mark Royden Smith \*Isak Dawid Vorster

> DEGREE OF MASTER OF PHILOSOPHY

In Biomedical Forensic Science: Tracy Bennett Robyn Ernestine Conrad Rosemarie Ursula Hofler

In Clinical Research Administration: Chante Davies

In Disability Studies: Anthea Kay Hansen

In Exercise and Sports Physiotherapy: \*Hayd'n Cody Hill

In Maternal & Child Health: Azeezat Modupeola Jimoh

In Paediatric Critical Care: \*Marie-Charlyne Fatima Kilba

In Palliative Medicine: Nozuko Zele

In Public Mental Health: \*James Samwel Ngocho

> DEGREE OF MASTER OF PHILOSOPHY IN HEALTH INNOVATION

Meftah Madi Ramonde Fiona Patientia

> DEGREE OF MASTER OF PUBLIC HEALTH

In Community Eye Health: \*Grace Wangari Mwangi (with distinction)

In Epidemiology:

Jessica Abrams (with distinction) \*Joanna Elizabeth Allerton (with distinction in the coursework component)

\*Vester Poyamba Gunsaru (with distinction) Kathleen Kehoe (with distinction)

In Health Systems:

Thania Gopal (with distinction)

In Social & Behavioural Sciences: Samantha Faustine Malunga (with distinction in the dissertation)

DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING

Jean-Rassaire Fouefack (with distinction)

DEGREE OF MASTER OF SCIENCE IN EXERCISE AND SPORTS PHYSIOTHERAPY

\*Marthinus Lotz Brink Charlene Ghislaine Varekamp (with distinction in the dissertation)

> DEGREE OF MASTER OF SCIENCE IN MEDICINE

In Anatomical Pathology: Chera Olivier

In Forensic Genetics:

\*Kate Megan Reid (with distinction)

In Genetic Counselling: Monica Rodrigues Araujo Susan Louw

In Neuroscience: \*Ruth Verity Passchier

> DEGREE OF MASTER OF SCIENCE IN NURSING

\*Magret Cathrine Haynes Nomgcobo Anthia Ndyenga (with distinction in the dissertation)

# DEGREE OF MASTER OF SCIENCE IN PHYSIOTHERAPY

Fahmida Harris

\*Karlien Spangenberg (with distinction)

### DEGREE OF MASTER OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY

Samantha Fae-Lee Coetzee

# DEGREE OF DOCTOR OF PHILOSOPHY

In Biomedical Engineering: Roopam Dey Thesis Title: Design and development towards a novel prosthesis for total shoulder arthroplasty

Roopam Dey completed his undergraduate degree at the VIT University, India and then went on to complete his master's in medical engineering from the University of Leeds, UK before joining UCT in 2015 as a full-time PhD student.

Roopam Dey's thesis reports inter-population variation in the size of glenohumeral joint (GHJ), between European and sub-Saharan cohorts. His study on the GHJ morphometry suggests that the current total shoulder arthroplasty (TSA) prostheses sizes will not cater for at least 9% of the world's population. To test the new prosthesis designs he worked on developing a computerised biomechanical and finite element models. Both the insilico models were validated against the literature and these findings will be useful in improving the post-surgical outcomes of TSA in the future.

Supervisor: A/Professor S Sivarasu (Human Biology)
Co-supervisor: A/Professor S Roche (Surgery)

\* Jonathan Daniel Glenday
Thesis Title: Biomechanical assessment
of RTSA functional outcomes towards
optimising the prosthesis configuration

Jonathan Glenday completed his BSc (Engineering) in Electro-Mechanical engineering at UCT in 2013. He began his master's in Biomedical Engineering in 2014, before upgrading to his PhD in 2015.

Jonathan Glenday's thesis focuses on the computational modelling of reverse total shoulder arthroplasty and the effect of modifying prosthesis configuration on deltoid moment arm, joint stability, and impingement-free range of motion. He evaluates eighteen parameters that modify the placement of the prosthesis and characterises the relative impact of each. Thereafter, he combines a subset of beneficial parameters to identify a configuration that optimises the functional outcomes of the reverse shoulder. He further investigates the performance of the optimised configuration by assessing its effect on deltoid fatigue during prolonged periods of use, and micromotion at the bone-implant interface. He finds that, by mutually benefiting from its constitutive modifications, configurations combine parameters can have a greater impact on function than configurations that implement a single modification. He postulates that the combined glenosphere inferior translation and posteromedial humeral tray translation can optimise functional outcomes.

Supervisor: A/Professor S Sivarasu (Human Biology)
Co-supervisor: A/Professor S Roche (Surgery)

Gizeaddis Lamesgin Simegn Thesis Title: Double volumetric navigators for real-time simultaneous shim and motion measurement and correction in Glycogen Chemical Exchange Saturation Transfer (GlycoCEST) MRI

Gizeaddis Simegn holds a BSc in Electrical Engineering from Jimma University and an MSc in Biomedical Engineering from Addis Ababa University, Ethiopia. Before joining the Faculty of Health Sciences at UCT for his PhD studies he worked as a lecturer at Jimma Institute of Technology, Jimma University, Ethiopia.

Gizeaddis Simegn's focuses on the optimisation of a magnetic resonance imaging (MRI) sequence for measurement of muscle glycogen using Chemical Exchange Saturation Transfer (CEST). He investigates the effects of subject motion and inhomogeneities in the scanner's magnetic field on CEST measurement, and implements fast image navigators to measure both motion and the resulting magnetic field changes. These effects are then corrected in realtime during CEST acquisition. He then investigates the stability of the optimized technique and finds that it improves the scan-rescan reproducibility of CEST for detection of muscle glycogen. The optimized CEST MRI sequence is successfully implemented on the Siemens Skyra MRI scanner at the CUBIC-UCT facility located at Groote Schuur Hospital in Cape Town and is currently the only non-invasive technique in use on the African continent for imaging glycogen levels in vivo. The improvements presented by Gizeaddis Simegn will facilitate more detailed study of glycogen metabolism.

Supervisor: Dr F Robertson (Biomedical Engineering, UCT)

Co-supervisors: Dr A Alhamud (The MRI research activity at the Department of Engineering, University of Tripoli, Tripoli, Libya), A/Professor A van der Kouwe (Radiology, Harvard Medical School Assistant in Physics, Massachusetts General Hospital)

Adam Marthinus Johannes Van Niekerk Thesis Title: A vector based approach for high frequency prospective correction of rigid body motion in Magnetic Resonance Imaging (MRI)

Adam van Niekerk holds a BSc in Electro-Mechanical Engineering from UCT. He joined the medical imaging research group at the university in 2013 for his master's studies and upgraded to a PhD in 2015.

Adam van Niekerk's thesis focuses on the correction of head motion

within a magnetic resonance imaging (MRI) scanner. Motion is most prevalent in the ill, reducing the diagnostic value of images. Adam's research aims to address this problem by measuring and correcting for patient motion at high frequency throughout the acquisition of data. To achieve this he has designed and fabricated a series of novel markers that are wireless and free from scanner specific calibration, allowing them to be easily used in any MRI scanner. The devices synchronise to the MRI scanner with sub-microsecond precision and measure the changing magnetic fields within the imaging bore. These vector observations are combined with measurements of the direction of the static magnetic field to measure and correct subject pose roughly once every few milliseconds. Not only are diagnostic quality images achieved with severe patient motion, but also improved image quality in conventionally still patients.

Supervisor: Professor E Meintjes (Human Biology)
Co-supervisor: A/Professor A van der Kouwe (Harvard Medical School, Harvard University)

In Clinical Pharmacology:
Retsilisitsoe Raymond Moholisa
Thesis Title: Pharmacokineticpharmacogenetic-and-pharmacodynamic
adherence relationships in cohort
South African HIV infected children on
lopinavir-and nevirapine-based regimens

Retsilisitsoe Moholisa holds a BSc(Med) (Hons) and MSc(Med) Degrees in Medical Biochemistry from UCT and a National Diploma and B-Tech Degree in Biomedical Technology from the Cape Peninsula University of Technology. He started his PhD in March 2011 after joining the Division of Clinical Pharmacology, UCT.

Retsilisitsoe Moholisa's thesis utilized serial clinic visit samples collected from young children on antiretroviral therapy to evaluate the pharmacokinetic, pharmacogenetic and pharmacodynamic relationships underpinning treatment response. Lopinavir and nevirapine concentrations were measured in the samples to generate a unique data set with

information about the drug concentrations in children over time, which were related to adherence and outcome (CD4+ Lymphocyte counts and viral load). Using classical statistical analysis, Mr Moholisa showed that lopinavir concentrations <1mg/L had a higher hazard viral rebound and could be used as a proxy to guide treatment adherence, whereas nevirapine concentrations were not predictive of virological failure. Furthermore, when using non-linear mixed effects modelling, he showed nominal associations between genetic polymorphisms in the SLCO1B1 gene and lopinavir pharmacokinetics. Moreover, he also showed that genetic polymorphisms in the CYP2B6 gene were associated with nevirapine pharmacokinetics using similar a approach

Supervisor: Professor H McIlleron (Medicine) Co-supervisors: Professor G Maartens (Medicine); Dr PZ Sinxadi (Medicine)

Lloyd Tanner Thesis Title: *Drug discovery at the site of pulmonary tuberculosis* 

Lloyd Tanner holds a BSc in Human Physiology and Microbiology and BMedScHons in Clinical Pharmacology, both from UCT. He joined the Division of Clinical Pharmacology in 2014, and upgraded his MSc to a PhD in 2016.

Lloyd Tanner's thesis addresses the topic of drug discovery at the target site of pulmonary tuberculosis. Lloyd's thesis focuses on the extended duration of standard tuberculosis (TB) therapy which suggests the inefficiency of current firstline TB drugs to eliminate the causative agent Mycobacterium tuberculosis (Mtb). Among multiple potential causes, the thesis highlights the poor distribution of TB drugs into the pulmonary lesions in which the bacilli reside. Lloyd focuses on several redox-inducing agents and their development in the context of efficacy at the target site. To this end, several in vitro absorption, distribution, metabolism and excretion studies and in vivo murine studies were conducted and revealed heterogenous permeation and efficacy. These results were underpinned by results obtained using a novel

infected macrophage assay. A potentially efficacious two-drug combination was identified and will be tested further. Importantly, the thesis provides evidence for a paradigm shift away from plasma concentrations within the field of anti-TB drug discovery.

Supervisor: A/Professor L Wiesner (Medicine)
Co-supervisors: A/Professor DF Warner (Pathology); Professor RK Haynes (Chemistry, Hong Kong University of Science and Technology)

In Clinical Sciences and Immunology: Christina Balle Thesis Title: Effects of hormonal contraceptives on the female genital tract microbiota in South African adolescents

Christina Balle holds a BA and MA degree in Molecular Biomedicine from the University of Copenhagen, Denmark. Thereafter, she joined the Division of Immunology at UCT in 2015 for her doctoral studies.

Christina Balle's thesis focuses on biological factors influencing vaginal mucosal health of South African adolescents, particularly with regard to HIV risk. In particular, she studies the vaginal microbiota and its relationship with female sex hormones, sexually transmitted infections and other common exposures during adolescence. She then goes on to study the effects of hormonal contraceptives on adolescent vaginal microbiota in a randomised trial. She further relates these vaginal bacteria and genital tract immunology. She concludes that oral contraceptive pills may have a positive influence on vaginal health compared to injectable hormones or vaginal rings.

Supervisor: Dr Heather Jaspan (Immunology) Co-supervisors: Associate Professor Jo-Ann Passmore (Virology) & Dr Katie Lennard (Computational biology) In Human Genetics:
Stacey Moses

Thesis Title: Towards identifying the precise molecular pathogenesis underlying the disease phenotype in individuals carrying a mutation in the spliceosomal gene, PRPF8

Stacey Moses completed her BSc, BSc(Hons) and MSc degrees at the University of the Western Cape and began her full-time study towards her PhD in 2014.

Stacey Moses's thesis describes an extensive body of research towards understanding the molecular pathogenesis of a form of inherited retinal disease (IRD) which leads to blindness. A previously identified, novel gene, PRPf8, underpins a form of IRD. Although this gene is expressed in every cell in the body, the only disease manifestation affects the retina and vision. It impossible to access the retinal tissue of living patients, Stacey's work involved obtaining skin tissue from 3 affected individuals and 3 of their unaffected siblings, growing these into fibroblasts in cell culture. The fibroblasts were reprogrammed to an iPSC state, the cells were then differentiated to photoreceptor cells. Total RNA from each of the cell types, reflecting all genes expressed, was subjected to highthroughput sequencing, and extensive data analysis in order to compare the downstream effect of the mutated PRPf8 gene in each of the cell types between affected and unaffected siblings. Allowing her to identify potential downstream genes, and biological processes, that play a role in the disease pathogenesis.

Supervisor: Professor R Ramesar (Pathology)

Tina Sharon Roberts
Thesis Title: Dental implications of
genetic and congenital intellectual
disabilities in Cape Town

Tina Roberts has been a member of the academic staff of the Faculty of Dentistry, University of the Western Cape since 1998. She currently has the status of Senior Lecturer/Consultant in the Department of Oral Pathology.

The investigation on which

Tina Roberts' thesis is based concerned dental abnormalities and disorders in children with genetic and congenital intellectual disability syndromes. She examined and evaluated affected children at the Red Cross Hospital and in outreach dental clinics. She also collaborated with clinical geneticists from UCT in visits to special institutions for the intellectually disabled children in the Cape. During this project more than 200 children from different populations were examined and assessed. Dental problems which were identified included caries, gingival disease, malocclusion, missing teeth and anomalies of the jaw and midface. It was evident that both basic and specialist dental care was very inadequate and that this deficiency was widespread in the population. In these circumstances, appropriate dental treatment provided for all the affected children seen during the investigation. The majority of the parents of affected children had encountered barriers to accessing dental care for their children. In particular, there was a paucity of dental services and while other significant problems were financial issues and lack of transport. On the basis of the observations made during the investigation, it was possible to propose recommendations for the improvement of dental care and services in the Cape.

Supervisor: Emeritus Professor P Beighton (Pathology) Co-supervisor: Professor L Stephen (Pathology)

Donald Moshen Tanyanyiwa Thesis Title: *Type 2 diabetes mellitus* and dyslipidaemia: effects of genetic variation in African populations

Donald Tanyanyiwa holds a Master of Medicine in Pathology from UCT and a Fellowship from the Colleges of Medicine of South Africa. He joined the Division of Human Genetics at UCT for his PhD studies. He is the Pathologist in Charge at Chris Hani Baragwanath Academic Hospital.

Donald Tanyanyiwa's thesis focuses on the role of genetics in the development of dyslipidaemia in African diabetic patients. The study site was Chris Hani Baragwanath Academic Hospital

which has one of the largest diabetic clinics in the South Africa. He started by looking at all the diabetic patients attending the clinic and selected those who had abnormal lipid and lipoprotein results. Donald looked at the different dyslipidaemia pattern to investigate the role of two genes, Apolipoprotein E (ApoE) and proprotein convertase subtilisin/kexin type 9 (PCSK9). The study showed the effects of ApoE and PCSK9 genetic variation on the dyslipidaemia observed in black South African diabetic participants. study showed that individuals carrying genotypes APOE\*2/\*2, APOE\*2/\*3 and PCSK9 rs505151A/A had poor glycaemic control. Therefore, this study has shown that diabetic dyslipidaemia has an underlying genetic influence. This is helpful in targeting treatment.

Supervisor: Professor C Dandara (Pathology)

In Medical Virology:
Olivia Danielle Carulei
Thesis Title: Genetic and phenotypic
analysis of novel South African Avian
poxviruses

Olivia Carulei grew up in Canada and came to South Africa after matriculating to attend UCT. She completed her BSc majoring in Genetics and Physiology, and was awarded her BMedScHons in Infectious Diseases and Immunology with distinction.

Olivia Carulei's thesis an in-depth analysis of two novel avipoxviruses isolates from lesser flamingo (Phoenicopterus minor) and African penguin (Spheniscus demersus). A comparison of macroscopic growth characteristics chorioallantoic on membranes, membrane histology and phylogenetic analyses was made with other avipoxviruses. Flamingopox virus was shown to group in subclade A3. induce membrane thickening and mesodermal hyperplasia while Penguinpox virus grouped in subclade A2, and did not induce membrane thickening or hyperplasia. The genomes of the above isolates were sequenced and compared to other available avipoxvirus genomes. Comparisons revealed major

differences in central regions that have traditionally been thought to be conserved. Further analysis revealed five regions of difference, of varying lengths, spread across the central regions of the various genomes.

Supervisor: Professor A-L Williamson (Pathology) Co-supervisor: Dr N Douglass (Pathology)

Anna-Ursula Happel
Thesis Title: Evaluation of probiotic
and vaginal Lactobacillus species for
the treatment of bacterial vaginosis and
promotion of vaginal health in South
African women

Anna-Ursula Happel holds BSc and MSc degrees in Molecular Medicine from the Friedrich-Alexander-University of Erlangen/Nuremberg in Germany. She joined the Division of Medical Virology, Department of Pathology, Faculty of Health Sciences at UCT in November 2015 for her PhD studies.

Anna-Ursula Happel's thesis evaluated Lactobacillus-containing probiotics for vaginal health as adjunctive treatment to antibiotics for bacterial vaginosis (BV). Probiotic strains were compared with vaginal Lactobacillus isolates from South African women. She found only few probiotics explicitly for vaginal health were available in South Africa, which demonstrated poor efficacy in treating BV in the first South African Health Products Regulatory Authorityregulated clinical trial of a probiotic product conducted nationally. Large randomised, controlled trials are needed to evaluate the effect of a well-designed probiotic on BV cure and recurrence in South African women.

Supervisor: A/Professor J-A Passmore (Pathology)

Co-supervisor: Dr R Froissart (CNRS)

Henry Munyaradzi Munyanduki Thesis Title: *Improvement of the Capripoxvirus, lumpy skin disease virus for use as a vaccine vector* 

Henry Munyanduki holds an honours degree in Applied Biology and Biochemistry from the National University of Science and Technology, Zimbabwe. He obtained his Master of Science degree in Biomedicine (neuroimmunology) from the University of Skovde, Sweden. This work was conducted at the University of Queensland, Australia.

Henry Munyanduki's thesis describes a comparison of two lumpy skin disease virus (LSDV) vaccines; nLSDV and Herbivac. He has investigated how the different vaccines interact with host cells to influence pathogenicity and immunogenicity. In a mouse model Herbivac upregulated more host genes than nLSDV. These genes were largely associated with cell death and cell proliferation. By making recombinant vaccines with one gene (superoxide dismutase (SOD) homologue) either knocked out or knocked in (with an improved SOD homologue), he showed how this single gene could influence virus growth and immunogenicity. The presence of the full-length SOD homolog was associated with increased inhibition of camptothecin induced cell death. It was also associated with an increased inflammatory response in fertilized hens' eggs. Deletion of the gene resulted in lower viral yields both in eggs and cells. This work could translate to the improvement of vaccines against lumpy skin disease virus.

Supervisor: Professor A-L Williamson (Pathology)
Co-supervisor: Dr N Douglass (Pathology)

In Nursing:
\*Susanna Aba Abraham
Thesis Title: "Why I stayed when others left": an appreciative inquiry of retention in the prevention of mother to child transmission of HIV in Takoradi Government Hospital, Ghana

Susanna Aba Abraham holds a BA in Nursing with Psychology from the University of Ghana, and an MPH from the Kwame Nkrumah University of Science and Technology in Ghana. Before joining UCT, she worked as a nurse and lecturer at the University of Cape Coast, Ghana.

Susanna Abraham's focuses on the retention of women newly diagnosed HIV positive during pregnancy in the Prevention of Mother-to-Child Transmission (PMTCT) programme in a district hospital in Ghana. Employing a novel approach that looks at mothers who remained instead of disengaged, she explores their experiences and factors that informed their decision to remain in the programme while receiving care during pregnancy, labour and postnatal. Susanna Abraham also explores the experiences and aspirations of midwives and community health nurses providing care in the programme to improve retention and patients' experiences using the Appreciative Inquiry methodology. The study reveals life-enhancing experiences and hope in a 'seemingly' hopeless situation. A network of family and health workers results in positive outcomes; negative babies born to HIV infected but healthy and empowered women. Action plans are developed to guide the PMTCT programme service delivery in Ghana.

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

In Physiotherapy:
Jermaine Matewu Dambi
Thesis Title: Evaluation of the mental
health profile of caregivers of children
with cerebral palsy in a low-resourced
setting: development, translation and

validation of patient-reported outcome

measures

Zimbabwe.

Jermaine Dambi holds BSc(Hons) and MSc Physiotherapy degrees from the Universities of Zimbabwe and Cape Town respectively. He registered for his PhD in 2015. He works as a Physiotherapist and lecturer in the Department of

Rehabilitation at the University of

Iermaine Dambi's thesis focuses on the development, translation and validation of mental health evaluation questionnaires in caregivers of children with disabilities in Zimbabwe. He further investigates factors which could be driving poor mental health in caregivers. He collected information from 1 256 caregivers living in both urban and rural areas between 2016 and 2017. He starts by investigating the experiences of caregivers using semi-structured interviews. He then uses focus group discussions, systematic reviews and cross-sectional surveys to validate the outcome measures. He profiles the mental health of these caregivers by exploring factors influencing their poor mental health status. This he attributes in the most part to poverty, caring for a child with a severe disability, and providing care for a longer duration. His research establishes the basis for developing interventions to improve the mental health of caregivers living in low resource settings.

Supervisor Emeritus Professor J Jelsma (Health and Rehabilitation Sciences) Co-supervisor: Dr TM Mlambo (University of Zimbabwe) In Psychiatry:
Stephanie Sieberhagen
Thesis Title: Investigating relationships
between women's moods and their
menstrual cycles – a multimethod study

Stephanie Sieberhagen holds a BA from Stellenbosch University, an honours in Linguistics from the Rand Afrikaans University (RAU); an honours in Psychology from the University of South Africa and a master's in Psychology from RAU. She started her PhD in 2014 in the Department of Psychiatry and Mental Health at UCT.

Stephanie Sieberhagen's thesis focuses on the relationship between the menstrual cycle and mood. She uses her own Self Report Diary alongside three established psychometric instruments to determine the daily and weekly moods of twenty-eight participants, over a two month period. She ascertains that women's moods do fluctuate across their menstrual cycles and that there are distinct groups of women whose moods follow similar patterns during their menstrual cycles. She further finds that these groups can be linked to specific behavioural features such as exercise, hobbies, owning pets, and most notably, level of education. She proposes that early identification and intervention for those women experiencing self-identified cycle-mood dissatisfaction could be beneficial to both a woman and her immediate family.

Supervisor: Professor C Adnams (Psychiatry and Mental Health) Co-supervisor: Professor L Artz (Pathology)

In Public Health:
Megan Renay Prinsloo
Thesis Title: Estimating injury mortality
in South Africa and identifying
urban-rural differences

Megan Prinsloo holds a master's degree in Public Health from the University of the Western Cape. She is a Senior Scientist at the South African Medical Research Council, where she has developed expertise in the area of injury surveillance and injury epidemiology.

Megan Prinsloo's thesis identifies urban-rural injury, including

homicide, death differences. She used data from a nationally representative Injury Mortality Survey which she assessed to be of good quality, compared to the misclassification of injury deaths recorded by South Africa's vital registration system and reported by South African Police data. Her analyses identify significantly higher homicide risks in urban compared to rural areas, and lower transport-related death risks in urban areas, with no difference for suicide. High Black and Coloured urban homicide risk for younger people and high White transport-related deaths in rural areas for older people drive urban/ rural differentials. Firearm use drives the higher homicide risk in urban compared to rural areas. Recommendations are made in relation to the main findings.

Supervisor: Professor J Myers (Public Health and Family Medicine) Co-supervisors: Professor D Bradshaw (Public Health and Family Medicine), Professor R Matzopoulos (Public Health and Family Medicine)

In Speech-Language Pathology:
\*Rizwana Mallick
Thesis Title: The Classroom
Communication Resource (CCR)
intervention to change grade 7 peers'
attitudes towards children who stutter
(CWS) in the Western Cape: a randomised controlled trial

Rizwana Mallick holds a BSc and MSc in Speech-language Pathology from UCT. She worked in public and private healthcare before teaching in the Department of Communication Sciences and Disorders.

Rizwana Mallick conducted cluster Randomised Controlled Trial (RCT) using the Classroom Communication Resource (CCR) to address school teasing and bullying. The CCR used communication and stuttering as audible examples of discrimination to address acceptance, diversity, and difference to change peer attitudes towards children who stutter. The Stuttering Resource Outcomes Measure questionnaire used Positive Social Distance, Social Pressure and Verbal Interaction to measure acceptance, ease, comfort, thoughts, emotions,

feelings and social pressure. Although no statistically significant findings were noted at 6 months post-intervention, clinical importance was observed. The study found an improvement in peer attitude change in a positive direction at 6 months post-intervention. The CCR was applicable to grade 7 learners in lower and higher quintile Western Cape schools. The RCT showed that using stringent methods, group designs, teacher collaboration and, classroom-based intervention was possible. The CCR has potential to contribute to addressing teasing and bullying in school settings.

Supervisor: Professor H Kathard (Health Sciences Education)

Co-supervisor: Professor L Thabane (Medicine)

In Surgery:
Baxolele Mhlekude
Thesis Title: The barrier functions of
the cervical mucus plugs and purified
mucins against a panel of HIV-1 strains
in the contexts of cell-free and cell-to-cell
infections

Baxolele Mhlekude holds a BSc(Med) (Hons) in Medical Biochemistry from UCT. In 2015, his MSc(Med) degree was upgraded to a PhD, after a threemonth research stint in the TWINCORE, Germany

Baxolele Mhlekude's thesis investigates the anti-HIV-1 activity of the crude cervical mucus plug and its purified mucins to better understand the role mucus plays in the protection of the cervix against the transmission of HIV-1. Mucus plugs were obtained from women during labour, at the Mthatha General Hospital in the Eastern Cape, and used in inhibition assays against a panel of HIV-1 strains. He found that the crude cervical mucus plugs could inhibit HIV-1 infection more effectively than the purified mucins, which are the major structural components of the mucus. This he attributes to the total molecular content of the crude cervical mucus plug as opposed to its purified mucins per se. He recommends further investigation to identify the molecules that mediate the anti-viral activity in the cervical mucus plug, if this endogenous

gel is to be developed into a vaginal microbicide.

Supervisor: Emeritus Professor A Mall (Surgery)
Co-supervisor: Professor C Goffinet (Institute of Experimental Virology, TWINCORE).

### HISTORICAL SKETCH

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

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

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

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

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

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

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

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

### VISION AND MISSION UNIVERSITY OF CAPE TOWN

#### Vision

An inclusive and engaged research-intensive African university that inspires creativity through outstanding achievements in learning, discovery and citizenship; enhancing the lives of its students and staff, advancing a more equitable and sustainable social order and influencing the global higher education landscape.

#### Mission

UCT is committed to engaging with the key issues of our natural and social worlds through outstanding teaching, research and scholarship. We seek to advance the status and distinctiveness of scholarship in Africa through building strategic partnerships across the continent, the global south and the rest of the world.

UCT provides a vibrant and supportive intellectual environment that attracts and connects people from all over the world.

We aim to produce graduates and future leaders who are influential locally and globally. Our qualifications are locally applicable and internationally acclaimed, underpinned by values of engaged citizenship and social justice. Our scholarship and research have a positive impact on our society and our environment.

We will actively advance the pace of transformation within our University and beyond, nurturing an inclusive institutional culture which embraces diversity.

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Their generosity has assisted us toward our goals of improving student access to tertiary education and promoting curriculum, staff and student transformation; increasing our research capacity; and implementing programmes that promote social engagement and community upliftment.

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#### FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

Retina South Africa

Rheinmetall Denell Munition (Pty) Ltd

Rio Tinto Plc

Robert Bosch Stiftung Roche Products (Pty) Ltd

Roche Products (Pty) Ltd - Diagnostics

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The Rolf-Stephan Nussbaum Foundation

Rosalie van der Gucht Will Trust Ruth and Anita Wise Charitable and

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SAP South Africa (Pty) Ltd

The Sasol Social and Community Trust

**Educational Trust** 

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The Skye Foundation Trust

South African Institute of Chartered

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South African Responsible Gambling Foundation

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TB/HIV Care Foundation Thabo Mbeki Education Trust

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The Wholesale & Retail Sector Education

and Training Authority

The Wilfred Cooper Trust

The Wilhelm Frank Trust

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Xstrata South Africa (Pty) Ltd

The Zamani African Cultural Heritage Sites

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The Zenex Foundation

#### Friends of UCT

Organisations that have made gifts to UCT, totaling under R1 million.

2606 organisations who have generously shown their support by making a gift to the University of Cape Town.

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Individuals whose gifts to UCT over a five year period have amounted to between R250,000 and R500,000

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Individuals whose gifts to UCT over a five year period have amounted to between R100,000 and R250,000

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Peter George Abner Wrighton

Derek Yach

Rob Williams

#### FRIENDS OF THE UNIVERSITY OF CAPE TOWN

Individuals whose gifts to UCT over the last five years have amounted to less than R100,000 3305 individuals who have generously shown their support by making a gift to the University of Cape Town.

### **Bequests**

Individuals who have bequeathed a legacy

gift to UCT in their wills.

Niel Ackerman

PA Ackerman Will Trust Harry Allschwang Enid Atkinson

Linda Doreen Beckett

JFW Bell

TS Berwitz Will Trust Anne Alida Bomford

Simon Bor CLF Borckenhagen AM Botha

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Rosalie van der Gucht Will Trust

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JF Viljoen

#### Note:

As of January 2015, the levels of individual donors' giving circles have changed as follows:

- Chancellor's circle: formerly R250 000+, now R500 000+;
- Vice-Chancellor's Circle: formerly R100 000 R250 000, now R250 000 R500 000;
- Dean's circle: formerly R60 000 R100 000, now R100 000 R250 000;
- Friends of UCT: formerly <R60,000, now <R100,000.

Please note that these changes only affect donations received after 1 January 2015. All donors who were members of particular circles prior to January 2015, will continue to be recognised in their original circles, until the rolling five-year giving period has elapsed.

We apologize for any omissions or errors. If you would like to query your donations totals, circle membership, or any other matter related to your gifts to UCT, please email giving@uct.ac.za.

A full list of UCT donors is also available at www.uct.ac.za/main/donating-to-uct/donor-recognition.

### **OFFICERS OF THE UNIVERSITY**

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#### Vice-Chancellor

Mamokgethi Phakeng, BSc North West MSc PhD Witwatersrand

#### Chair of Council

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#### Chief Operating Officer

Reno Lance Morar, MBChB Natal DHMEF MMed Cape Town FCPHM SA

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Engineering &

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### Dean of Higher Education Development

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#### Registrar

Royston Nathan Pillay, BA HDE BEd Executive MBA Cape Town

Welcome, Wamkelekile, Welkom – today is not the end of your relationship with the university but the beginning of a new phase in your continuing relationship with UCT, one that you share with the UCT community of over 100 000 alumni.

Diverse as this community is, the shared experiences of a critical academic ethos and a spectacular campus make for a strong network that has a wide footprint, not only in South Africa, but across the continent and the globe.

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

Updates can be done on the web – <a href="http://www.uct.ac.za/dad/alumni/update/">http://www.uct.ac.za/dad/alumni/update/</a> - 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!

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