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# FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (CEREMONY 1)

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# FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (CEREMONY 1)

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## ORDER OF PROCEEDINGS

Academic Procession.

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

The Vice-Chancellor will constitute the congregation.

The National Anthem.

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

Musical Item.

Welcome by the Acting Deputy Vice-Chancellor, Professor D Reddy.

Professor Reddy will present the Distinguished Teacher Award to Dr. Janice McMillan.

The graduands will be presented to Vice-Chancellor by the Dean of the Faculty of Engineering and the Built Environment, Professor Alison Lewis.

The Vice-Chancellor will congratulate the new graduates.

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

The Vice-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.)*

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## NATIONAL ANTHEM

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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.

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## **DISTINCTIONS IN THE FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

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A qualification may be awarded with distinction, honours, and first class honours where a student has shown outstanding academic achievement.

The Bachelor of Architectural Studies (BAS) may be awarded with distinction where a candidate has obtained

a minimum of 75% in the Design and Theory Studio III examination and minimum of 60% in one of the other Design and Theory Studio examinations

and an additional three marks of at least 75% in his or her BAS course work.

The degrees of Bachelor of Science in Engineering and Bachelor of Science in Geomatics may be conferred with

first class honours, where the candidate has obtained at least 75% for the research project and a weighted average of 75% for the degree or,

honours, where the candidate has obtained a minimum of a second class pass in the research project and a weighted average of 65% for the degree.

The degrees of Bachelor of Science in Construction Studies and Bachelor of Science in Property Studies may be awarded with distinction where a candidate obtains a minimum weighted average of 75% for the degree.

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## DISTINGUISHED TEACHER AWARD

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The Distinguished Teacher Award, given once only to an individual, recognises teaching at any or all levels by a member of the faculty that has made a significant and lasting impression on students.

Previous recipients in the Faculty of Engineering and the Built Environment have been:

1994	R Nates (Mechanical Engineering)
1997	G M Tattersfield (Electrical Engineering)
2007	J Case (Chemical Engineering)

The following member of the Faculty of Engineering and the Built Environment has been chosen for this award in 2017:

**Dr Janice McMillan**  
**Centre for Innovation in Learning and Teaching**

Janice McMillan's teaching is located at the intersection of the university and the community. She draws on her discipline, Sociology, to make sense of the complexities of working in this 'boundary space' and understands the innately political nature of teaching at the university-community interface. She strives to understand, challenge and nurture students through community engaged learning and teaching, built on a transformative pedagogy. This approach to teaching helps students imagine themselves as socially conscious citizens and professionals, a critical need and approach at this historical juncture in higher education.

Janice has taught in the Adult Education Programme as well as in service learning and community-based teaching at UCT. Since 2013 Janice has been the convener of an elective course designed for engineering students which exposes them to learning beyond their discipline. Through community engaged learning, the course aims to work with students to interrogate the relationship between their technical engineering knowledge, and the lived realities of communities in which they will one day work.

Janice's teaching has had a major influence on staff and students. In the words of a Distinguished Teacher, "Dr McMillan has inspired students through her teaching in the Adult Education Programme and in the Global Citizenship Programme. She has supported and helped so many colleagues build a commitment to service-learning and community-based teaching, critically and almost single-handedly deepening UCT's work in this area. This innovative and essential work has built interdisciplinary and engaged learning opportunities at UCT in ways that previously did not exist."

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## **DISTINGUISHED TEACHER AWARD (CONTINUED)**

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Students and staff alike have provided testimony to ways in which Janice has influenced their learning and teaching. For example they stated that students love being taught by Janice because her approach is a refreshing take on how learning could be achieved. She encourages debate, fosters students' ability to be critical thinkers and helps them to engage with the material not only on a purely academic level but also by providing real-life examples and community visits to understand the issues from grassroots levels. This is where her innovation in teaching becomes apparent. She creates and facilitates learning activities that combine the need for foundation knowledge with tailored games, online chats, blogs, creating art exhibits and campaigns. This builds a very integrated system where learning is experiential and knowledge expands – all keeping pace with how students have personally engaged with the material.

Janice's was the recipient of a Collaborative Teaching Award from UCT in 2016 and is a worthy winner of the Distinguished Teacher Award, which recognises that beyond her commitment, enthusiasm, knowledge and excellence, she has been able to transcend her field, move beyond the discipline and become one of the most influential teachers transforming the minds of students and her colleagues.

## NAMES OF GRADUANDS

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

### FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

*Dean: Professor A. Lewis*

#### POSTGRADUATE DIPLOMA IN ENGINEERING MANAGEMENT

\*Siyanda Siyabonga Mgodlwa

#### DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

*In Chemical Engineering:*

Alexander Manuel Bada De Cominges (with first class honours)  
Daniel José Bada De Cominges (with first class honours)  
\*Leigh Barrow (with honours)  
\*Victoria Alice Blackbeard (with first class honours)  
Shafick Bruintjies  
Thuso Bulala  
\*Fred Chibwana (with first class honours)  
Anderson Chimphango  
Blessing Hellen Chirume  
\*Wesley Collair (with first class honours)  
Hylton Dale Crous  
Cara Bea Davidson (with first class honours)  
Andrea Louise De Goede (with honours)  
Jason Bongani Delaney (with first class honours)  
Jordan Nicholas Delbridge (with honours)  
Otinell Dlamini  
Reuben Mkhuleko Dlamini  
\*Claire Duncan-Brown  
Nontsikelelo Grace Dyasi  
Linda Joy Foster  
Tayla Kate Gordon (with first class honours)  
Matthew Daniel Gorven (with honours)  
Mivashya Govender (with honours)  
Nikhyle Govender (with honours)  
Priyashnie Govender

\*Olga Guseva  
Benjamin Andrew Hall  
Robin Lee Hall  
\*Nicolas Ian Harris  
Ashleigh Hein (with honours)  
Herbert Edward Hill (with honours)  
\*Alexandra Elizabeth-Joan Himunchul (with honours)  
\*Jenni Chantal Hinds  
Brandon Arthur Hinrichsen (with honours)  
Liam Kingsley Hitchcock  
Emma Jane Horn (with honours)  
Adam Jamal Howa (with honours)  
Yadi Hu  
Pieter De Waal Hugo (with first class honours)  
\*Benedict Romeo Jantjies  
Kristin Andrea Johnson (with honours)  
So-Mang Kim (with honours)  
\*Takunda Diana Kondo  
\*Dawid Daniël Kruger (with first class honours)  
Nishtha Singh Kukreja (with honours)  
Yuma Langenbach (with honours)  
Poloko Lefifi  
Lelia Nelson Lelia (with honours)  
Mavis Elaine Lewis  
Matimba Convert Mabonda  
Pfumbeani Confidence Makhuvha (with honours)  
\*Richard Bradley Martin (with honours)  
Onkarabile Matome (with honours)  
Tracy Gachoki Mbiyu (with honours)  
Brenda Mehlo (with honours)  
Mvano Mgam  
Mpumelelo Tevin Mhlongo (with honours)  
Masoi Johannes Mhlophe  
Basetsana Naledi Mohlabane  
Maseloko Mokone  
Verona Ann Moodley (with honours)  
Minenhle Teresa Moyo (with honours)  
\*Norman Mpofo  
Lindiwe Ascentia Mthimunye  
Theona Mudley (with first class honours)  
Mashudu Muridili  
Suhail Ahmed Musa (with honours)  
\*Delisha-Ann Naicker  
Siphiwo Ndabula  
Tinashe Brush Ndemera  
Ruvarashe Mitchel Ndoora (with honours)  
Tasekela Ng'ambi (with honours)  
Nonzwakazi Kim Nkahle  
\*Mandiwakhe Ntlabathi

Nqobile Praiseworthy Ntobela (with honours)  
Sibusisiwe Luyanda Nxumalo  
Zipporah Nyabonyi Nyokangi (with honours)  
Lisa Louise October (with honours)  
Sean Teshin Pillay  
Timothy David Pons (with first class honours)  
Mikyle Klyde Potts (with honours)  
Thakhani Zuriel Ramaru  
Srikesh Rameshwar Ramdari (with honours)  
Kimaya Reddy (with honours)  
James Guy Robinson  
Nesta Winnie Sebopa  
\*Thapelo Disego Selekane  
Ross Peter Shardlow (with honours)  
Keabetswe Bonolo Skee  
Mishka Slamang (with first class honours)  
Storm Gerry Strydom (with honours)  
Alexandra Stuart-Smith (with first class honours)  
Brian Sithembiso Thobela  
Andrew Cameron Thompson  
\*Relebohile Tseka  
Mpho Mapitso Lucia Tsotetsi (with honours)  
\*Érika Ghislaine do Rogério Utui (with honours)  
Ameerah Van Der Fort (with first class honours)  
Ljiljana Vasic (with first class honours)  
Olivia Venter (with honours)  
David Gabriel Viljoen  
Marianne Werle Van Der Merwe (with first class honours)  
Andrew Grant Williams (with first class honours)  
Alexander Aidan Wilmot (with honours)  
Nancy Nanhua Yu  
Mahalihali Zabangwa  
Sinovuyo Zipete (with honours)  
Lungile Judicious Zwane (with honours)  
*In Electrical Engineering:*  
Sheldon Kenneth Blackbeard (with honours)  
Nosiphiwe Forgiveness Duma  
Tshilisanani Dzivhani  
Kossivi Agbessi Fangbemi (with first class honours)  
Nicole Daniella Feldman (with first class honours)  
Jarushen Govender

- \*Sifiso Sibusiso Hlophe  
Niranjana Jagadeesan  
Muhammad Zubeir Joosub  
Bartromeus Muundu Kasera  
Happy Kedibone Kekana  
Wesley Kim Sing  
Edward Nkululeko Lambani (with honours)  
Wandile Xolani Lamula  
Daniel Jacob Mabuggwe (with first class honours)  
Phumudzo Mafanedza
- \*Jonathan Robert Malin (with honours)  
Dolly Thelma Masilela
- \*Fahim Khalid Mbarak (with honours)  
Sizwe Mkhonta  
Palesa Mokhele  
Humbulani Lucky Mulaudzi  
Ndamulelo Nemakhavhani (with honours)
- \*Lucky Nkolonzi  
Sibabalo Noludwe (with honours)  
Sinesipho Umpille Pakade
- \*Zubeida Patel (with honours)  
Lehlohonolo John Phaphathisa (with honours)  
Fundiswa Philiso  
Dewald Pretorius (with honours)  
Kamohelo Sekila (with honours)
- \*Vely Alfred Sondezi  
Jean Reynault Swart (with first class honours)  
Omphemetse Kealeboga Thebe  
Shumani Tshifhango
- In Electrical and Computer Engineering:*  
Gareth Mitchell Callanan (with first class honours)
- \*Shaylin Chetty (with honours)  
Matthew Robert Coulson (with first class honours)  
Ayaovi Espoir Djissenou (with honours)  
Michael Graham Evans (with honours)
- \*Stuart David Hadfield  
Katekani Valentia Hlungwani (with honours)  
Wayne Hsun-Wei Huang (with honours)
- \*Brandon Jared Joffe (with honours)  
Melvin Kalamira  
Robert Jake Katz (with honours)  
Andrew Alexander Richard Kozik  
Benjamin Gavriel Lewis (with honours)  
Jiamo Liu (with honours)  
Ross Macarthur (with honours)  
Mark Richard Macnab  
Marchello Meiring  
Michael Benno Mesarcik (with honours)
- Majd Al-Islam Mohamed  
Imaculate Resto Mosha (with honours)  
Tariro Mukute  
Vurdanya Naidu (with honours)
- \*Adrienne Nikuze (with honours)  
Keletso Noko  
Azizou Ogbone (with first class honours)  
James Andre Oosterbaan  
Yu Min Park  
Asif Ahmed Parker (with honours)  
Craig Ian Plaatjes (with honours)
- \*Pooja Ramdaursingh  
Philippus Lodewikus Scholtz  
Nandile Zamawelase Thandiwe Soni (with honours)  
Atanas Dimitrov Stavrev  
\*Bradley John Stocks (with first class honours)  
Michael John Young (with honours)
- In Electro-Mechanical Engineering:*  
Shameela Arbi  
Sive Baartman  
Alexander Francois Blom (with first class honours)  
Renata Briajraj  
Kelebogile Inocentia Chabalala
- \*Itai Chimhundu  
William Victor Chiwasha  
Justin Thomas Davenport  
\*Justin Pierre Du Plessis (with honours)  
\*Ruskin Marc Janowski  
\*David Rock Jedeikin (with first class honours)  
Sovaid Ahmad Khan  
Anza Wilfred Khubana  
Jonathan David Makepeace  
Mulanga Masikhwa  
Shereen Pitso Mmakola  
Sifiso Goodman Nkosi
- \*Richard Jack Oldnall  
\*Mohamed Siddique Parker  
\*Willem Johannes Pretorius  
Alexander Spanellis (with honours)  
\*Leo Charles Thesen (with honours)  
Ashraf Ebrahim Vahed (with first class honours)
- \*Lizahn Van Gend (with first class honours)
- In Mechanical Engineering:*  
Matthew Peter Addison (with first class honours)  
\*Muhammed Shafeeq Allie  
Kensleyrao Apajee  
Jan Tsholofelo Baloyi  
\*Polisa Nanzi Bika (with honours)
- Caitlyn Louise Blignaut (with first class honours)  
Ameel Bobat  
\*James Braithwaite (with first class honours)  
Michael Nicholas Brooke (with honours)  
Heidi Burger (with first class honours)  
Nezi Busakwe  
Nicholas William Campbell (with first class honours)  
Amy Christianne Carlisle (with first class honours)  
Shoaib Shabir Chohan  
Daniel Christopher Cogzell  
Samantha Gillian Cowan (with honours)  
Andrew Michael Curry (with honours)  
Shamil Desai  
Lutfo Siphwiwo Dlamini (with honours)  
Edward Louis Dos Santos
- \*James Thomas Dunne  
\*Kaelan James Grafton (with first class honours)  
Aaron Michael Graham (with first class honours)  
Andrew Richard Graham  
\*Philip James Grant (with honours)  
Christie Rosslee Guess  
Abraar Mohammed Hasan Harnekar  
Joanna Haufiku  
Brent Idas  
Mark Comfort Jabangwe  
Fungai Blessing Jani
- \*Timothy Krige  
Claire Victoria Lawrence (with first class honours)  
David Paul Maasch  
\*Nhlanhla Vusi Makhanye  
Arinao Maposa  
Vincenzo Leo Marchesini (with honours)  
Tshepiso Josia Matshitse  
Nyasha Nigel Mawire (with honours)  
Nonduduzo Mnisi  
Eddie Mnyikiso (with honours)  
Mohapi Katlego Mohlamonyane  
Philip Kagiso Montsho  
Seranya Moodley (with honours)  
Tinashe Emmanuel Mudarikwa
- \*Thendo David Mudau (with honours)  
Chipiwa Mukono  
Christopher Murray  
Ross Andrew Murray (with honours)  
Travis Nagesar  
\*Samiksha Sundrasen Naidoo  
Mudiwa Lovemore Ndudzo



\*Andres Ondo Nguema Bahamonde  
(with honours)  
Christa Nsanzinteko Nsanzubuhoro  
(with first class honours)  
Tasmiya Osman  
\*Junaid Saliem Parker  
Claude Ognandou Piessou (with first  
class honours)  
Semakaleng Kutlwano Radebe  
Thato Ngwato Ramashala  
Mothomone Fortunate Ramphago  
Kayla-Paige Carrington Raper (with  
honours)  
David Joseph Raphael (with honours)  
\*Patrick Louis Rollinson (with honours)  
\*Bradford Murombedzi Sawadye  
Joseph Franz Schauerte (with honours)  
Jaco Scheepers  
Davison Takawira Seenzayi  
Charles Powery Slabbert  
Qaasim Soeker  
Thabiso Nkosinathi Sonqishe  
Carla Swanepoel (with honours)  
Robert Micheal Temlett (with honours)  
Phophi Millicent Tshidavhu  
Michael Caley Van Der Merwe  
Daniel Van Huyssteen (with honours)  
\*Malamis Vavatzanidis  
Oliver Borton Wale  
Matthew Walters  
\*Scott Warburton  
Michael Robert Winson  
Michael Dennis Wright (with honours)  
Mohamed Bilal Yusuf (with honours)

*In Mechatronics:*

\*Rodney Ahabwe  
Roberto Andrea Aldera (with honours)  
Moegammad Ameen Bardien  
Luke Maximo Bell (with honours)  
Benjamin Roddam Bingham  
Adam Daniel Botes  
Catherine Jane Bradshaw (with  
honours)  
Ryan John Buckinjohn  
Craig Burden (with honours)  
Boitumelo Dikoko (with honours)  
Calvin Mark Eddles  
\*Carl Michael Eriksen  
George Hilton Gabriels  
Luke Brian Goemans (with honours)  
Avashen Soma Govender  
Shivaan Govender (with honours)  
Ahmed Jaffer  
David Jonathan Laing  
Maurice Antony Le Cordier  
Rupert Leslie (with honours)  
Tshegfatso Michelle Lobelo

Damien Lopez  
Namhla Princess Mabombo  
Natascha Helga Minges  
\*Zaheed Moola  
\*Baden David Morgan  
\*Alvin Mwesigwa Mulamula  
\*Basil Muller  
Ndaudika Nghilifavali Mulundileni  
Tumelo Ntelekoa  
Shivani Ramroop  
Nicholas William Rous  
Shabier Ahmed Sayed  
Benjamin Daniel Scholtz (with  
honours)  
Saarti Loide Ndesihafela Shaalukeni  
Zen Singh  
Matthew George Smith (with honours)  
Abdul-Gaffoor Sunday  
Munawwar Tayob (with honours)  
\*Murray John Stephen Truter  
\*Ange Uwase  
Kevin James Venter  
Senzo Sakhile Vincent Zulu

DEGREE OF BACHELOR  
OF SCIENCE (HONOURS)

*In Materials Science:*

\*Olayiwola Akeem Ajadi  
Varaidzo Amanda Churu  
Motseki Finger  
Rukeya Games  
\*Andile Aubrey Khari  
Bafana Thabo Kubheka  
\*Sibusiso Tholinlanhla Luthuli  
Zimele Avumile Mbanjwa  
Zanele Nzima

DEGREE OF MASTER OF  
ENGINEERING

*In Telecommunications:*

Retselisitsoe Sylvia Lejajah

DEGREE OF MASTER OF SCIENCE  
IN ENGINEERING

*In Chemical Engineering:*

Motlalekgomo Merona Mogale

*In Mechanical Engineering:*

\*(With distinction) Helen Liedtke

DEGREE OF DOCTOR  
OF PHILOSOPHY

*In Chemical Engineering:*

Allan Bernard Nesbitt  
Thesis Title: *A study of the decay of  
acid cationic ion exchange resin*

Allan Nesbitt received a National Diploma in Chemical Engineering in 1986 from the Cape Technikon, a Higher National Diploma in Chemical Engineering from Vaal Triangle Technikon in 1989 and completed a master's degree in Technology at the Cape Technikon in 1996. He has held positions at South African Breweries, Caltex, Mintek and as lecturer at Cape Technikon/CPUT.

Allan Nesbitt's thesis studies the prediction of ion exchange resin decay over their in-process service, which constitutes a considerable limitation in the effective design of processes that incorporate ion exchange. A machine was developed that ages resin rapidly through frequent absorption and desorption cycles and then measures the change in transient behaviour. Using a complex model algorithm that extracts external and internal mass transport parameters from the measured data, the work discovered a clear link between the intra-particle diffusivity and resin physical state of decay. This methodology provides a critical tool for long-term prediction of resin life.

*Supervisor:* Professor J Petersen  
(Chemical Engineering)

Olumide Oluwaseun Ogunmodimu  
Thesis Title: *Developing a mechanistic model for flow through a perforated plate with application to screening of particulate materials*

Olumide Ogunmodimu holds BSc and honours degrees in Physics from Bowen University in Iwo Nigeria, and an MSc(Eng) in Energy studies from UCT. His doctoral research was informed by his passion for applied sciences in engineering and his quest to conduct advance research in process engineering. Olumide Ogunmodimu's thesis employs Discrete Element Methods (DEM) to study particle flow for vibrating screens. The work developed a model for vibrating screens using the continuum approach and this model is able to make predictions for various size screens operating at different conditions. The granular rheology term in the model makes it more generally applicable to flow of materials on an inclined perforated bed which is vibrating. The work combines abilities in advanced mathematics and also knowledge of physics and engineering principles to overcome challenges associated with developing generalized models for equipment used for granular materials.

*Supervisor:* Professor A Mainza  
(Chemical Engineering)  
*Co-supervisors:* Emeritus Professor J-P Franzidis (Chemical Engineering);  
Professor I Govender  
(Chemical Engineering, University of KwaZulu-Natal)

*In Electrical Engineering:*  
Enoruwa Obayiuwana  
Thesis Title: *Efficient radio resource management in next generation wireless networks*

Enoruwa Obayiuwana has a BSc from the University of Benin, Benin City and an MSc from the Obafemi Awolowo University, Ile-Ife, Nigeria. His doctoral thesis emerged as a result of his research work in the Department of Electrical Engineering at UCT, where he has been a research student since 2012.

Enoruwa Obayiuwana's thesis aims to design and develop a framework

that enhances quality of service for mobile communication users in moving hotspot networks in the next generation wireless networks. The call admission control framework adaptively exploits the calls generation pattern and mobility sequence of the moving hotspots to enhance the quality of service and radio utilization of the moving hotspot networks. The developed scheme can easily be implemented in mobile hotspots networks.

*Supervisor:* Associate Professor OE Falowo (Electrical Engineering)

Ayodele Abiola Periola  
Thesis Title: *Efficient spectrum handoff schemes for cognitive radio networks*

Ayodele Periola completed his B.Eng. (Hons) at the Federal University of Technology Akure, Nigeria and his MSc at the University of South Wales, Australia. He began full-time study towards his PhD in 2013.

Ayodele Periola's thesis designs cognitive radio based mechanisms that ensure interference free spectrum access for terrestrial wireless network, commercial earth observations and terrestrial radio astronomy observations. The proposed mechanisms also improve the user quality of service in these technologies. The cognitive radio has been recognised as an important entity in the design of future wireless communication technologies. It is capable of multi-context operation, dynamic reconfiguration, environmental sensing and reasoning. The results shows that the incorporation of intelligent mechanism in the cognitive radio incorporated in the entities used in terrestrial wireless networks, commercial earth observations and terrestrial radio astronomy observations can improve the quality of service for users in these technologies.

*Supervisor:* Associate Professor OE Falowo (Electrical Engineering)

Serendra Reddy  
Thesis Title: *Automatic 2D-to-3D conversion of single low depth of field images*

Serendra Reddy has a BSc(Eng) from the University of KwaZulu-Natal and a MEng from the University of Pretoria. His doctoral thesis emerged as a result of his research in the field of intelligent systems at the Durban University of Technology, where he has been a member of the staff since 2011. Serendra Reddy's thesis aims to develop a system that autonomously extrapolates three-dimensional depth information from a single two-dimensional low depth-of-field image and subsequently synthesise a stereoscopic image pair that represents the original scene being observed from two different viewpoints. The rendered disparity image pair may then be simultaneously presented to the retina of an observer and subsequently allow for the scene to be experienced in 3D. Serendra Reddy incorporates principles from the fields of computer vision, image segmentation, pattern recognition, machine learning as well as statistical and probability reasoning to develop a mathematical model of the system, which is then physically realised. Novel contributions are proposed in the sub-speciality fields of segmentation, depth map generation and depth image-based rendering. The accuracy of the system is subjectively and objectively assessed against numerous state-of-the-art approaches and the results are presented as a validation of the effectiveness of the model.

*Supervisor:* Associate Professor F Nicolls (Electrical Engineering)

*In Mechanical Engineering:*

Anna Magdalena De Villiers

Thesis Title: *A patient-specific FSI  
model for vascular access in haemodi-  
alysis*

Andie de Villiers has a BEng and MEng from the North-West University. Her PhD research was conducted at CERECAM (Centre for Research in Computational and Applied Mechanics). The research undertaken by Andie de Villiers forms part of a multidisciplinary project that aims to improve the understanding of the haemodynamics and vascular mechanics in arteriovenous shunting for patients suffering from kidney disease. The approach makes use of new magnetic resonance image (MRI) technology and computational modelling. The thesis presents the development of a three-dimensional finite element model of the fluid-structure interaction in a brachial-cephalic patient-specific fistula. The model is validated against the flow patterns acquired from the MRI. Results from the simulation identified regions of high wall shear stress where clotting is likely to occur.

*Supervisor:* Professor BD Reddy  
(Mathematics and Applied Mathematics  
and CERECAM)

*Co-supervisor:* Dr. AT McBride  
(University of Glasgow)

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# VALUES OF THE UNIVERSITY

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The University is a community of scholars, teachers, students and staff. A community implies the shared acceptance by its members of common values. The concept of values implies not only rights but also obligations, for the community itself and for its individual members.

This statement of values provides a framework that informs and governs what is considered by the University community to be appropriate and acceptable behavior. The statement also serves as the foundation for a range of University policies and guides the management of particular aspects of University life.

As a community, the University commits itself, and expects all its members, to exemplify and uphold these values and to reflect them not only in institutional and personal relationships, but also in all other aspects of University life, including work, sport, recreation, and cultural, intellectual, religious and other activities.

As a values-based community, we aspire to an encompassing ethos which

- promotes academic excellence and the attainment of the institutional goal of becoming a world-class African University;
- preserves what is valuable in the history of the institution and of this country, and responds to the challenges posed by past injustices and unfair discrimination;
- achieves social transformation, empowerment and participative governance;
- affirms and protects the fundamental human rights enshrined in the Constitution; and
- encourages the institution and all its members to accept responsibility for the welfare of the community and for behaving in accordance with these community values

## VALUES

We commit ourselves to

- truth, fairness, consistency, and integrity in both academic and other work, and in all personal and institutional relationships;
- compassion, generosity and concern for the needs and aspirations of others, and in particular for the challenges faced by the less privileged in our society;
- respect and tolerance for cultural, religious, political, and other differences and acknowledgement of the value of diversity in society;
- respect for individual privacy, dignity, and the right to personal choice;
- intellectual honesty, rigour in debate, openness to alternative ideas and respect for other views, beliefs and opinions;
- commitment to high standards, personal fulfillment and the pursuit of excellence;
- the protection and responsible use of the University's assets and resources;
- concern for the personal safety, health and welfare of all members of the community; and
- the protection and conservation of the environment and our natural resources.

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## VALUES OF THE UNIVERSITY (continued)

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### ACTIONS

In the context of our recent history, we recognize the importance of affirming this ethos and promoting these shared values. Accordingly, we undertake collectively and individually

- to promote and protect academic freedom;
- to oppose and take steps to prevent racial, gender or other forms of unfair discrimination, harassment, violence or abuse;
- to actively promote social justice and equity;
- to nurture a culture of learning, which is supportive of students, scholars and teachers;
- to refrain from speech or conduct that demeans or humiliates others;
- to encourage our members to enjoy life; to laugh, to love, to appreciate and take full advantage of the wealth of opportunities available to us in academic endeavour, in making friends, and in social, cultural and sporting activity;
- to advance the principle of open governance and to be fully accountable for our actions, decisions, and the stewardship of the University's resources and mission; and
- to nurture and empower our members.

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# ACADEMIC DRESS

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## OFFICERS OF THE UNIVERSITY

### ***CHANCELLOR***

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

### ***VICE-CHANCELLOR***

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

### ***DEPUTY VICE-CHANCELLOR***

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

### ***CHAIR OF COUNCIL***

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

### ***MEMBERS OF COUNCIL***

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

### ***REGISTRAR***

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

### ***PRESIDENT OF CONVOCATION***

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

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## ACADEMIC DRESS (continued)

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### GOWNS

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

### HOODS

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

### DISTINCTIVE COLOURS

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

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## HISTORICAL SKETCH

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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.



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# MISSION STATEMENT OF THE UNIVERSITY OF CAPE TOWN

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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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# THE UNIVERSITY OF CAPE TOWN DONOR ROLL

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

## FOUNDATIONS, CORPORATES AND TRUSTS

### Platinum Circle

*Foundations, Trusts, Corporates that have made donations to UCT totaling R50 million and above (alphabetically)*

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The FirstRand Foundation	The MAC AIDS Fund	Rangoonwala Foundation
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Gold Fields Foundation	Medical Education for South African Blacks	The Rolf-Stephan Nussbaum Foundation
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Guy Elliott Medical Research Trust		Sanlam Ltd
Haw & Inglis (Pty) Ltd		Sasol Ltd
HBD Business Holdings		The Sasol Social and Community Trust
HCI Foundation		The Saville Foundation
The Hermann Ohlthaver Trust		The Schroder Foundation
		SCHWAB Foundation for Social Entrepreneurship
		Sir Siegmund Warburg's Voluntary Settlement

## FOUNDATIONS, CORPORATES AND TRUSTS CONTINUED

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

2340 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 over R500,000*

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*Individuals whose gifts to UCT over the last five years have amounted to less than R100,000*  
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### Bequests

*Individuals who have bequeathed a legacy gift to UCT in their wills.*

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#### **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](mailto:giving@uct.ac.za).*

*A full list of UCT donors is also available at [www.uct.ac.za/dad/giving/donor\\_recognition](http://www.uct.ac.za/dad/giving/donor_recognition).*

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## OFFICERS OF THE UNIVERSITY

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### **Chancellor**

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

### **Vice-Chancellor**

Max Rodney Price, MBBCh *Witwatersrand* BA *Oxon* MSc *London* Dip Occ Health *Witwatersrand*

### **Chair of Council**

Sipho Mila Pityana, BA *Essex* MSc *London* DTech(hc) *VUT*

### **President of Convocation**

Nyameko Barney Pityana, BA BProc *Unisa* BD(Hons) *Kings College* PhD *Cape Town* DUniv(hc) *Buenos Aires* DD(hc) *Trinity College* Attorney of the High Court, OLS Grand Counsellor of the Order of the Baobab: Silver

### **Deputy Vice-Chancellors**

Hugh Micha Corder, BCom LLB *Cape Town* LLB *Cantab* DPhil *Oxon* Advocate of the High Court (Acting)

Loretta Annelise Feris, BA LLB LLD *Stellenbosch* LLM *Georgetown*

Mamokgethi Phakeng, BSc *North West* MSc PhD *Witwatersrand*

Batmanathan Dayanand Reddy, OMB BSc(Eng) *Cape Town* PhD *Cantab* FRSSAf FSAAE MASSAf (Acting)

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*Engineering &  
the Built Environment:*

Alison Emslie Lewis, PrEng BSc(Eng)Chem MSc(Eng) PhD *Cape Town* FSAIChe FSAIMM MASSAf FSAAE

*Health Sciences:*

Bongani Mawethu Mayosi, BMedSc MBChB *UKZN* DPhil *Oxon* FCP *SA* FRCP *London* FESC FACC MASSAf OMS

*Humanities:*

Harry Oludare Garuba, MA PhD *Ibadan* (Acting)

*Law:*

Penelope Elizabeth Andrews, BA LLB *Natal* LLM *Columbia*

*Science:*

Anton Powter le Roex, BSc *Stell* BSc(Hons) PhD *Cape Town*

### **Dean of Higher Education Development**

Suellen Butler Shay, BA *Lincoln* MA *Illinois* PhD *Cape Town*

### **Director of the Graduate School of Business**

Milford Sibusiso Soko, BSocSc *Cape Town* MA *Stellenbosch* MA PhD *Warwick*

### **Registrar**

Royston Nathan Pillay, BA HDE BEd Executive MBA *Cape Town*

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

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

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

*Updates can be done on the web – <http://www.uct.ac.za/dad/alumni/update/>  
- or by writing to the Alumni Office, UCT, PB X3 Rondebosch 7701  
or by contacting us on (27) (21) 650 3746.*

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

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