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# FACULTY OF SCIENCE (CEREMONY 1)

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

Musical Item.

Welcome by the Master of Ceremonies.

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

The Presiding Officer will congratulate the new graduates.

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, 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 SCIENCE**

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Bachelors degrees may be awarded with distinction

in a subject (or major), where the student achieves first class passes in specified courses

in the degree, where the student has both distinction in at least one subject (or major) and first class passes in at least the equivalent of six full courses.

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

Master's degrees may be awarded with distinction

in the degree, (by dissertation) for especially meritorious work

in the degree, (by coursework and minor dissertation) for especially meritorious work for the dissertation as well as achieving 75% or better for the coursework.

## NAMES OF GRADUANDS

Graduation ceremony suspended because of Covid-19. All graduated *in absentia* at a special Congregation of the University of Cape Town on 17 March 2020.

Dean: Professor M Ramutsindela

### DEGREE OF BACHELOR OF SCIENCE

Riyaadh Abrahams  
Thavaron Brentino Abrahams  
Zainab Adjiet (with distinction in Computer Engineering, Computer Science and the degree with distinction)  
Firdows Alexander  
Atoosa Amel  
Meg Thandi Anderton  
Arnold Gareth Appolis  
Saarah Asmal  
Luke Norman Attenborough  
Lungelo Tervin Bambiso  
Thomas Robert Baissac  
Mandisa Dianah Baleni  
Nkcubeko Bara  
Chelsea Rose Bennette  
Aksana Bhuwanee  
Akhil Boddu (with distinction in Business Computing)  
Tyler Jessica Booth  
Daniel Robert Bowden  
Layla Emma Bradford  
Daniella Rose Broad  
Thomas John Bull  
Carly Ann Burmeister (with distinction in Applied Biology, Genetics and the degree with distinction)  
Ammar Canani (with distinction in Business Computing, Computer Science and the degree with distinction)  
Genevieve Emma Catterson  
Joanna Joy Chan (with distinction in Human Anatomy & Physiology)  
Jakon Lee Changfoot  
Ansuya Chetty  
Anesuishe Nicole Chineka (with distinction in Human Anatomy & Physiology and the degree with distinction)  
Tafadzwa Chitagu (with distinction in Human Anatomy & Physiology and Biochemistry)

Blessed-Brighton Chitamba  
Byung Hyun Cho  
Susan Elizabeth Clarke  
Paula Cohen  
Toshka Lauren Coleman  
Jayden Collison  
Roxane Colmant  
Matthew Roy Coombe  
Siphokazi Tamara Dayimane  
Leanne Joy Dean (with distinction in Genetics)  
Amelia Anne Louise Deary (with distinction in Ocean & Atmosphere Science)  
Rahul Prem Deeljore  
Gustavo Amicis Miliauskas De Souza Mendes  
Olivia De Villiers (with distinction in Psychology)  
Sivanesan Navukarasan Dharmalingam  
Kyllen Dilsook (with distinction in Genetics)  
Karabo Mompoti Diseko  
Kouthar Dollie  
Jennifer Ann Dove  
Kyle Dean Du Plessis  
Claudia Megan Elliot-Wilson (with distinction in Human Anatomy & Physiology, Psychology and the degree with distinction)  
Jonathon Everatt  
Dwayne Liam Fernandes  
Monique Elizabeth Ferreira  
Clare Rose Finlayson (with distinction in Geology)  
Abduraghmaan Fisher  
Martin Daniel Flanagan  
Dylan Robert Fouché (with distinction in Computer Engineering, Computer Science, Music Technology and the degree with distinction)  
Kwezi Futshane  
Robert Francis Noel Glennon  
Malikah Hardenberg  
Ethan Matthew Hartel  
Mogammat Raees Harts  
Luc Hayward (with distinction in Computer Science)  
Lara Kathryn Holtes (with distinction in Biochemistry, Genetics and the degree with distinction)  
Kate Elizabeth Humby  
Jannah Nivashni Hurree  
Abdul Qasif Isaacs

Shivek Iyer (with distinction in Business Computing, Computer Science and the degree with distinction)  
Jodie Lee Jacobs  
Victor Ethan Janhi  
Déna Skye Jansen  
Alexandra Charlotte Johnsen  
Carryn Jayne Joseph  
Nafeesah Karjieker  
Charlotte Emma Kerwin  
Ornella Kelly Keuko Njuenji (with distinction in Human Anatomy & Physiology and the degree with distinction)  
Lutendo Adjoa Anyele Khobo  
Mmitsane Predencia Khotseng  
Cynthia Waithira Kinuthia  
Roshan Kyle Klein  
Timothy Duncan Klein (with distinction in Human Anatomy & Physiology, Biochemistry and the degree with distinction)  
Alistair James Kolevsohn  
Jacob Mashape Legong  
Nazley Liddle  
Tarryn Anne Lindsey  
Chloe Simone Longmore  
Josh Callym Loyson  
Wen Kang Lu  
Sinethemba Mabaleka  
Willie Nganga Macharia (with distinction in Computer Engineering)  
Nicola Emma Macleod  
Mahima Maharaj  
Alexander Paul Main  
Nkosinathi Junior Makhanya  
Mokhele Samuel Makhoane  
Segopotso Canon Makhutja  
Bradley Malgas  
Magata Jesaya Mangatane  
Akhona Mankonkwana  
Indiana Mann  
Raashidah Manuel  
Bonnie Jacqueline Mansvelt  
Gabriella Benita Marais  
Rahul Shashi Marajh  
Jesse Daniel Mark  
Jennifer Marotholi  
Angelo Martins  
Nonkululeko Bonisile Mashiane  
Lauren Dorothea Matthee  
Sibusiso Leon Mayalo  
Yonela Afikile Mbangwa  
Ntsikelelo Nelson Mbekwa

Sasha Louise Meek (with distinction in Biochemistry, Genetics and the degree with distinction)  
 David Samuel Mesarcik  
 Stuart Michael Mesham (with distinction in Computer Science, Genetics and the degree with distinction)  
 Kelvin Colin Meyer  
 Tshepo Moitsehang  
 Neo Lerato Mokono  
 Kamogelo Mpolokeng Molokele  
 Khaleel Moodley  
 Lynolan Moodley (with distinction in Computer Science)  
 Janelle Ada Moore  
 Ntuthuko Mpaku  
 Malehlogonolo Rosemary Mphahlele  
 Lindani Brite Mphuthi  
 Rachel Thandolwenkosi Mpofo  
 Mbalenhle Siwelile Mthembu  
 Nonjabulo Thando Mthembu  
 Ayabonga Afika Mtsofo  
 Aluwani Fhatuwani Mufamadi  
 Ceara Jane Mullins  
 Michelle Odette Mullins (with distinction in Biochemistry, Genetics and the degree with distinction)  
 Jeanluc Mudib Mutomb  
 Brian David Mynhardt  
 Celest Naicker  
 Mira Naicker  
 Yuseung Nam  
 Sinethemba Ncetani  
 Lwazi Ndala  
 Thabo Sanele Paul Ndlovu  
 Given Ndou  
 Thendo Nembambula  
 Jaime Frances Newdigate (with distinction in Biochemistry and Genetics)  
 Qocokazi Ngesi  
 Gerald Joshua Ngumbulu  
 Siphokazi Fiona Ngxabazi  
 Lauren Christine Nixon  
 Thina Nonjezi  
 Laura Osorhean  
 Renee Panday  
 Abongile Mfingo Pandle  
 Sebastiano Paolo Parenti  
 Kayla Parker-Nichols  
 Vaishnavi Patel  
 Chulumanco Vuyokazi Peter  
 Arne Petre  
 Kirstin Robyn Petzer (with distinction in Ocean & Atmosphere Science)  
 Jesse Cole Phillips

Andisa Phuravhathu  
 Megan Alice Pickles  
 Humeshni Pillay  
 Ornessa Pillay  
 Sameshen Kaylan Pillay  
 Tatiana Anneliese Pitsiladi  
 Nolea Price  
 Alex Priscu (with distinction in Computer Engineering and Computer Science)  
 Caitlin Bianca Rabe  
 Refiloe Basetsana Rabothata  
 Khanyisile Eleanor Radebe  
 Tiantsoa Kenny Rakotoarison  
 Neha Ramsarup (with distinction in Ocean & Atmosphere Science)  
 Zahra Zameer Rashid  
 Yasin Razak  
 Sheldon Christopher Reay  
 Erin Paige Rencken  
 Donna Macgill Reynolds  
 Zandi Rothmann  
 Abigail Jean Russell  
 Cameron Robert Russell  
 Leilah Sahibo  
 Nabeelah Samie  
 Kauthar Samodien  
 Elvis Sebatane  
 Oreneile Emmanuel Sejeso  
 Pieter Gerhard Serton (with distinction in Computer Games Development)  
 Daniel Jake Servant  
 Faradiebah Kajee Shabudien  
 Imaan Shaik  
 Kenneth Shimabukuro  
 Motshabi Socrates Shuping  
 Quinton Sibanyoni  
 Thandile Sidyani  
 Mashego Sililo  
 Xhanti Singatha  
 Avi Singh  
 Cary Alexander Small  
 Duncan Munnik Smith  
 Emily Sarah Spencer  
 Joshua Andrew Stevens  
 Brooke Ashley Stewart (with distinction in Computer Science, Computer Games Development and the degree with distinction)  
 Christina Cecelia Steyn (with distinction in Human Anatomy & Physiology, Biochemistry, Genetics and the degree with distinction)

Teresa Julieta Steyn (with distinction in Human Anatomy & Physiology, Psychology and the degree with distinction)  
 Rebecca Surtees  
 Jordan Lee Taschner  
 Nicole Teixeira (with distinction in Biochemistry and the degree with distinction)  
 Lwandile Goodman Tena  
 Chelsea Anne Terry  
 Natalie Louise Terry  
 Sihle Dumisani Thabethe  
 Mu-Ath Toefy  
 Spunze Totyi  
 Sandile Tsewu  
 Nkosinathi Tshabalala  
 Liso Tshaka  
 Rian Ofentse Tshepe  
 Emma Van Der Meulen  
 Brent Lee Van Der Walt  
 Nicolah Van Der Westhuizen  
 Chelsea Michelle Van Rensburg  
 Taboka Panashe Velempini  
 Hendrik Jacobus Vermeulen (with distinction in Computer Engineering)  
 Courtney Leigh Wadey  
 Kgomotso Welcome  
 Danel Wentzel  
 Keegan Thomas White  
 Gregory Willcocks  
 Simone Rose Williams  
 Aidan Alexandre Wilton  
 Rani Claudia Wiswedel  
 Jadon Dean Wolffs  
 Tristan Mark Wood  
 Chumisa Yaphi  
 Paige Shira Nili Zinman  
 Mpumelelo Mamonoshi Bizo Zondo

DEGREE OF BACHELOR  
 OF SCIENCE HONOURS

*In Archaeology & Environmental Science:*  
 Trisha Divieshkumar Patel

*In Atmospheric Science:*  
 Timothy Dean Chambers  
 Paige Tayla Donkin (first class)  
 Jodi Jayne Hulley (first class)  
 Cynic Nemaungane  
 Ashlee Alexandra Van Wyk

*In Biological Sciences:*

Caitlyn Callanan (first class)  
Caitlin Dixon  
Aamirah Dramat (first class)  
Megan Jane Jackson (first class)  
Justin Shaun Jacobs  
Timothy Andrew Kirsten (first class)  
Michael Stefan Lambrecht (first class)  
Deanna Lasania  
Ashley Frances Minkley  
Thaabiet Parker (first class)  
Elena Alexandra Maxwell Piller  
Taylyn Chiara Risi  
Robert Thomas Sadler (first class)  
Gabriella Morgan Stapley (first class)  
Jessica Jane Tyrrell (first class)  
Michelle Helen Vrettos (first class)  
Kyle Sandy Walker

*In Chemistry:*

Yasien Gamal Saad Amer  
Leah Amod (first class)  
Haingotiana Sarah Andrianarisoa  
Nina Holzbach  
Cayla Jackson  
Lulama Precious Magoqoba  
Genevieve Christine Moss  
Meghan Jessica Oddy  
Humbelani Simon Ramulumo  
Taella Morgan Thiar  
Christopher James Thurling

*In Computer Science:*

Sasha Luca Abramowitz (first class)  
Shane Gregory Acton (first class)  
Mikhail Raqem Amod (first class)  
Alka Bajinath (first class)  
Joshua Daniel Benjamin  
Duncan James Campbell  
Jordy Reece Chetty  
Laura Cohen (first class)  
Claire Frances Denny (first class)  
Thapelo Gift Dikgang  
Meluleki Dube  
Pratish Dullabh  
Jarryd William Dowie Dunn (first class)  
Gareth Reeve Edwards  
Paul Edward Freund (first class)  
Brandon Gower-Winter (first class)  
Heng Jia Guo (first class)  
Scott Michael Hallauer (first class)  
Muhammad Hudhayfah Hassen  
Rowan Dean Hodson (first class)  
Ruben Edwin Kassier (first class)  
David Fredrick Kheri  
Ryan Dean Lazar (first class)  
Solomon Malesa

Hamandishe Yakob Mathivha (first class)  
Shakeel Mohamed  
Jethro James Möller (first class)  
Matthew Morris (first class)  
Kgabo Dominic Ngoetjana  
Zachary Ben Nudelman (first class)  
Sara Chetty Owen (first class)  
Robert John Perrott  
Pieter Cilliers Pretorius  
Wilhelm Prins  
Themviso Mulisa Ragimana  
Kiara Ramjith (first class)  
Joshua Peter Redelinghuys (first class)  
Charl Barend Ritter (first class)  
Kyle John Robbertze  
Tala Jo Ross (first class)  
Michael Ross Scott  
Clayton Sibanda  
Moegamat Ra-Eez Stenekamp  
Fergus John Strangways-Dixon (first class)  
Shawn Lee Swanson  
Liron Jacov Toledo  
Shun Wang  
Mughammad Saleigh Warner  
Michael James White (first class)  
Matthew David Young

*In Environmental & Geographical Science:*

Zakiya Abrahams (first class)  
Kathryn Frances Byrnes  
Emily Catherine Nicklin  
Birgitt Antoinette Ouweneel (first class)  
Zafeer Patel

*In Geochemistry:*

Mcdonald Takondwa Mtonda

*In Geology:*

Shaakirah Adams  
Batande Shayne Getyengana  
Sinelethu Hashibi  
Katlho Pono Mathafeng  
Muhammad Riyaad Mukaddam (first class)  
Njabulo Siphon Ndimande  
Elsa Caetano Da Conceicao Dos Santos

*In Information Technology:*

Tristan Jules Anthony Joseph  
Thomas Patrick Makkink (first class)  
Micara Shashi Marajh

*In Marine Biology:*

Jessica Tiffany Arro  
Natasha Amy Besseling

Silke Freia Brandt (first class)  
Amalia Luisa De Abreu  
Sasha Carmen Holloway  
Charné Maré  
Christie Munro  
Natasha Pindral (first class)  
Moegamat Iesgaq Samsodien  
Thembeke Cebile Shongwe

*In Molecular & Cell Biology:*

Nikhil Hasmukh Amtha  
Kirstin Lee Bloomer (first class)  
Thomas Kenneth Borchert  
Jessica Jean Bourn (first class)  
Erin Buchanan (first class)  
Kirsten Emma Buchanan (first class)  
Carole-Keza Capitaine (first class)  
Ashleigh Dreyer (first class)  
Jason Alexander Dunbar  
Amy Rene Edwards (first class)  
Abigail Caitlin Gwynn (first class)  
Michael Logan Haasbroek  
Samuel John Hewat  
Abdul Rahman Isaacs  
Leonidas Marthinus Karamanof (first class)  
Sarah Grace Lampert (first class)  
Caitlyn Daunt Mahony (first class)  
Pamela Winnie Modiege Maimela  
Joanna Barbara Michowicz (first class)  
Takudzwa Emmanuel Murwira  
Prince Kurauone Mushunje  
Lubabalo Ndidi  
Dylan Marcel Postmus (first class)

*In Ocean & Atmosphere Science:*

Wayne De Jager (first class)  
Jennifer Ann Dove (first class)  
Eesaa Harris (first class)  
Sonia Heye (first class)  
Mbulaheni Kelcey Maewashe  
Joshua Mirkin (first class)  
Benjamin Thomas Oliver (first class)  
Sejal Pramlall (first class)  
Tessa Toolsee  
Sive Xokashe (first class)

DEGREE OF MASTER  
OF PHILOSOPHY

*In Archaeology:*

Cornelius Taurai Mushangwe

*In Urban Studies:*

Geetika Anand (with distinction)  
Majaha Muziwandile Dlamini  
Abdullahi Ali Hassan

Joseph Mborijah Ngben (with distinction)  
Rosca Warriess

DEGREE OF MASTER OF SCIENCE

*In Applied Marine Science:*  
Kanakana Stanley Mushanganyisi

*In Applied Ocean Sciences (Operational Oceanography):*  
Tumelo Admiral Maja  
Tumelo Comfort Moalusi

*In Archaeology:*  
Jordan Ryan Scholfield (with distinction)

*In Biological Sciences:*  
Joel Robin Lewis  
Michelle Pretorius (with distinction)

*In Chemistry:*  
Lenard Leslie Carroll (with distinction)  
Fatima-Zahra Ishmail (with distinction)  
Jessica Lise Nel  
Athi Welsh

*In Climate Change & Development:*  
Julia Carolina Pelaez Avila

*In Computational Science:*  
Matthew Robert Coulson (with distinction)

*In Computer Science:*  
Mushashu Mwansa Lumpa  
Christopher Pocock

*In Conservation Biology:*  
Daryl Brett Van Der Merwe

*In Environmental & Geographical Science:*  
Margaret Colleen Macdonald

*In Geology:*  
Guy William Salomon (with distinction)

*In Molecular & Cell Biology:*  
Shelley Helen Fearon  
Thembeke Sebenzile Desiree Malwane  
Paulina Ndinelago Naupu

*In Ocean & Atmosphere Science:*  
Benita Maritz  
Ayanda Mpalweni  
Nicholas Mikael Salonen

DEGREE OF DOCTOR  
OF PHILOSOPHY

*In Chemistry:*

Roxanne Mohunlal  
Thesis Title: *A metallomic, proteomic and lipidomic investigation of the malaria parasite's digestive vacuole and insights into the mediators of haemozoin formation*

Roxanne Mohunlal obtained BSc and BSc(Hons) degrees in Chemistry from UCT. Subsequently, she pursued full-time postgraduate research in the field of bioinorganic chemistry.

Roxanne Mohunlal's thesis investigates the metalloproteome of the malaria parasite and the mediators of haemozoin formation. While residing within the human red blood cell, the malaria parasite actively ingests large amounts of haemoglobin and converts the resulting toxic free haem into biocrystalline haemozoin, a crucial process which enables parasite survival. Using multidisciplinary omic techniques, Roxanne Mohunlal demonstrates that the trace metal content of the parasite increases during maturation, indicating metal uptake, and identifies metal-specific transporters. Various proteins and lipids intimately associated with haemozoin are also identified and she shows that these crystals occlude biomolecules in a non-exchangeable manner. She further demonstrates that the lipids present at the time and site of crystal formation efficiently promote crystal formation under physiologically relevant conditions. This work provides new insights into metal distribution and uptake in *Plasmodium falciparum* and the biomolecules responsible for haemozoin formation in vivo.

*Supervisor:* Professor TJ Egan (Chemistry)

Richard Michael Payne  
Thesis Title: *Crystal engineering and sorption studies of cyclotrimeratrylene and C-methylcalix[4]resorcinarene solvates*

Richard Payne completed his BSc, BSc(Hons) and MSc degrees at UCT, then began study towards his PhD in 2013.

Richard Payne's thesis presents the preparation, structural elucidation and thermal analysis of several supramolecular systems where the molecules cyclotrimeratrylene and C-methylcalix[4]resorcinarene host several types of guest solvent molecules. A diverse set of host-guest systems were designed, which included a system where the exact pathway of solvent loss in the crystal could be unequivocally established, a rare example. Another important result was the design of a host-guest system which is the largest of its type presented in the scientific literature, an advance towards mimicking the complexity of nature's large supramolecular assemblies, such as viruses. In addition, the diverse structures of cyclotrimeratrylene and C-methylcalix[4]resorcinarene solvates, were shown, after desolvation, to resolvate to their original structures by mere exposure to vapours of their original solvents of crystallization. This shows that these systems may find application as extremely sensitive sensors for environmentally relevant organic vapours.

*Supervisor:* Dr C Oliver (Chemistry)

*In Computer Science:*  
Sinini Paul Ncube  
Thesis Title: *The use of social media on mobile devices to support the co-reading of eTextbooks*

Sinini Ncube completed her BSc at Fort Hare University followed by a BSc(Hons) and MSc at Rhodes University. Before joining UCT, she worked for a year as a software engineer. She then joined the Department of Computer Science's ICT4D Centre in 2013 to do her PhD studies.

Sinini Ncube's thesis investigates

how social media can encourage the social construction of knowledge through mass collaborations that are based on common objects of interests. She explored techniques of encouraging interactions by altering the presentation of forums as a tool for collaboration in eLearning. She created two forum based systems that test how social networking may be embedded within educational eTextbooks to promote collaborative reading. She then compared the collaborative eTextbook with the traditional forum that is usually created as a standalone application. She further investigated if anonymous user identity is an important part of online collaborations and studied how it affects the participation of students on eLearning platforms. Her findings will be useful in encouraging the exploration of other forum designs as a technique of improving content based interactions to promote the understanding of common content.

*Supervisor:* A/Professor S Hussein  
(Computer Science)

*Co-supervisor:* Professor Dr C Meinel  
(HPI)

*In Environmental & Geographical Science:*

Oliver Silver Cowan

Thesis Title: *The functional ecology of Eastern Rüens Shale Renosterveld*

Oliver Cowan holds a BSc in Biological Science and Environmental and Geographical Science and an MSc in Environmental and Geographical Science, both from UCT. He returned to the Department of Environmental and Geographical Science at UCT in 2015 for his PhD studies.

Oliver Cowan's thesis explores the relationship between biodiversity and ecosystem functioning across a gradient of degradation in the critically endangered Renosterveld vegetation. He adopts a number of lenses through which to explore this relationship, using phytosociological surveys to examine the relationship between taxonomic and functional diversity indices, litter traps to investigate the effect of plant litter type, season and habitat degradation

on litter decomposition rates, and Springtail (Collembola) community dynamics, and finally constructs three high-resolution plant-pollinator networks from sites with distinct land-use histories and with different above-ground vegetation communities. The work presents a significant contribution to our mechanistic understanding of Renosterveld ecology, critical to its further conservation and restoration.

*Supervisor:* Dr P Anderson  
(Environmental and Geographical Science)

Jessica-Jane Lavelle

Thesis Title: *Digging deeper for benefits: rural local governance and the livelihood and sustainability outcomes of devil's claw (Harpagophytum spp.) harvesting in the Zambezi Region, Namibia*

Jessica-Jane Lavelle holds a BSc in Ecology and Biodiversity from Stellenbosch University, a BSc(Hons) in Wildlife Management from the University of Pretoria and an MSc in Environmental Studies from the University of the Witwatersrand. Before joining UCT in 2014, she worked in conservation in South Africa and Namibia.

Jessica-Jane Lavelle's thesis focuses on the local governance of natural resources in the communal areas of north-eastern Namibia. As a case study she investigates devil's claw, a high-value medicinal plant that is wild harvested by local communities for international trade. She examines interactions of the State, non-governmental organisations (NGOs) and traditional institutions in three harvester communities in the Zambezi Region, investigating how these relationships shape livelihood and sustainability outcomes for harvesters and the resource. She relates these outcomes to power dynamics and broader historical and political-economic contexts to determine barriers to achieving equitable livelihoods and the sustainable use of natural resources. A central conclusion is that inadequate attention is given to restructuring power, knowledge and

decision-making from the State, NGOs and traditional institutions to resource users and that this inhibits opportunities for poverty alleviation.

*Supervisor:* A/Professor R Wynberg  
(Environmental and Geographical Science)

*In Molecular & Cell Biology:*

Lee Cackett

Thesis Title: *Characterisation of auxin and auxin-related genes in the response of Arabidopsis thaliana to salt stress*

Lee Cackett completed her BSc and BSc(Hons) qualifications at UCT, after which she began full-time study towards her MSc in 2016. She upgraded her MSc project to a PhD in 2018.

Lee Cackett's thesis reports a role for the plant growth hormone, auxin, and the auxin biosynthetic gene, Nitrilase 2, in modulating plant growth in saline environments. Soil salinization, which is caused by drought and irrigation with poor quality water, has detrimental effects on plant growth and development and affects 20% of cultivated land. Lee conducted microarray analyses which showed that salinity stress induces the expression of auxin responsive genes. She went on to measure auxin and showed that levels of the bioactive auxin, indole-3-acetic acid, increase in response to salt stress. Overexpression of Nitrilase2 was found to increase auxin levels and improve salt tolerance, confirming that this gene synthesizes auxin and is involved in salt stress responses. Better understanding of how auxin improves growth in saline environments could be applied to the development of more salt tolerance crops in the future.

*Supervisor:* Dr L Donaldson (Molecular and Cell Biology)

*Co-supervisor:* A/Professor R Ingle  
(Molecular and Cell Biology)

Christine Frances Madden  
Thesis Title: *Eragrostis nindensis*:  
*unravelling senescence in an African*  
*desiccation tolerant grass*

Christine Madden completed her BSc at Rhodes University before undertaking her BSc(Hons) and MSc at UCT.

Christine Madden's thesis investigated a desiccation tolerant grass *Eragrostis nindensis* to identify which biological processes result in drought induced senescence (the process of dying) and which are critical for tolerance of desiccation. Two tissue types, one senescent and the other non-senescent, were compared to understand how senescence upon abiotic stress is regulated. Differences in gene expression between the two tissue types during drying and rehydration were analysed through RNA-seq analysis. The transcriptome reflects a metabolic reprogramming towards desiccation tolerance in both tissue types, however only the non-senescent (desiccation tolerant) tissue appeared to suppress senescence, regulate and stabilise RNA, and maintain translational control, thus preventing cell death. Lipids, including triacylglycerol, accumulated in the non-senescent tissue during drying, an unusual feature in vegetative desiccation tolerance. Understanding the genetic regulation of senescence and water-deficit stress in the context of senescence can help improve drought resistance in crops to ensure food security.

*Supervisor:* Professor J Farrant  
(Molecular and Cell Biology)  
*Co-supervisor:* Professor S Mundree  
(Centre for Tropical Crops and  
Biocommodities, QUT)

Astrid Lillie Radermacher  
Thesis Title: *Desiccation-driven*  
*senescence in the resurrection plant*  
*Xerophyta schlechteri (Baker) N.L.*  
*Menezes*

Astrid Radermacher completed her BSc at Stellenbosch University in 2013 and BSc(Hons) at UCT in 2014. In 2015, she started the work that would ultimately lead to the completion of this PhD thesis.

Astrid Radermacher's thesis

outlines how senescence (cellular death) is prevented in the resurrection plant *Xerophyta schlechteri*. She studied this process on the macro level (phenology, physiology, cellular ultrastructure), as well as on the molecular level (metabolome and transcriptome) to form a unified model for cellular death initiation and prevention in response to desiccation. The study allowed identification of potential binding sites for repressors of cellular death pathways, which in future work could enable repression of such pathways and survival of crops under extreme drought. Astrid Radermacher's work has provided a novel resource towards ensuring future food security in Africa.

*Supervisor:* Professor J Farrant (Mo-  
lecular and Cell Biology)  
*Co-supervisor:* Professor S Mundree  
(Queensland University of Technology)

#### *In Tertiary Chemistry Education:*

Ibiye Tonye Dagogo  
Thesis Title: *Conceptual understand-  
ing, career aspiration, self-efficacy*  
*and experience of third-year chemistry*  
*students*

Ibiye Dagogo holds a degree in Chemistry from University of Ibadan, Nigeria and an MSc in Drug Analysis and Toxicology from Robert Gordon University, Aberdeen, UK. Prior to coming to Cape Town in 2017 for her PhD studies, she occupied a Quality Control position at Kelsey Hospital, Nigeria.

Ibiye Dagogo's research sought to understand students' persistence in chemistry by exploring the conceptual understanding, career aspirations, self-efficacy and experiences of a final year chemistry class. Data included students' responses to a specially-designed questionnaire, interviews, their course work and academic transcripts. She found no relationship between academic performance and either career aspiration or self-efficacy for this cohort. Most students persisted in chemistry even though they did not have career aspirations in the field. Although all students had a disheartening experience at some stage in their studies, students

from the Extended Degree Programme (EDP) struggled with the transition into second-year chemistry, while mainstream students found the transition into third-year difficult. Additionally, most EDP students continued to study because they wanted to help their parents financially, compared to mainstream students, who did not want the money spent on their education to be wasted. These findings suggest that all students would benefit from career counselling and academic support.

*Supervisor:* Emeritus A/Professor B  
Davidowitz (Chemistry)  
*Co-supervisor:* Dr DL Taylor (Physics)

#### *In Zoology:*

Marine Drouilly  
Thesis Title: *Characteristics,*  
*determinants and management of*  
*farmer-predator conflict in a multi-use*  
*dryland system, South Africa*

Marine Drouilly holds a BSc in Neuroscience and an MSc in Ecology from the University of Paris VI, France. She joined the Department of Biological Sciences at UCT in 2013 for her PhD studies, prior to which she worked in wildlife conservation.

In her thesis, Marine Drouilly used an interdisciplinary approach to investigate one of South Africa's longest standing conservation conflicts – predation of small-livestock by predators in the Karoo. Specifically, she attempted to understand how extensive livestock farming impacts on wildlife, how farmers perceive and manage predators and how predators exploit farmland and protected areas in the Karoo. Her results provide the first detailed assessment of biodiversity on farmland versus protected areas and reveal the importance of private farmland in conserving biodiversity in drylands. She explored the complex interplay between ecological and social drivers on livestock losses and framed these results within the shifting political and economic landscape of South Africa. Having revealed how predators are impacting livestock and how farmers are responding to losses, she highlighted how national and

provincial government, NGOs and the public can play an important role in sustaining small-livestock farming within improved conservation and welfare status of wildlife.

*Supervisor:* Professor MJ O'Riain  
(Biological Sciences)

*Co-supervisors:* Professor N Natrass  
(Economics); Professor A Clark  
(Statistical Sciences)

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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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## ORIGIN OF THE BACHELOR DEGREE

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The term 'Bachelor' derives from ancient ceremonies (the first such was believed to have been at Oxford in 1432) held to honour achievements of scholarship. The word derives from bacca lauri (laurel berry). Instead of the hoods we use today to signify your graduation, graduands of old wore garlands of laurel leaves and berries.

So the term has nothing to do with our modern understandings of what being a bachelor means, and everything to do with a long tradition of celebrating high achievement.

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## **VISION AND MISSION**

### **UNIVERSITY OF CAPE TOWN**

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#### **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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# 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.*

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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,  
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*A full list of UCT donors is also available at [www.uct.ac.za/main/donating-to-uct/donor-recognition](http://www.uct.ac.za/main/donating-to-uct/donor-recognition).*

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Lionel Patrick Green-Thompson, DA FCA *CMSA* MBCh MMed PhD *Witwatersrand*

*Humanities:*

Shose Kessi, PDBA *Witwatersrand* BA(Hons) *London* MSc PhD *LSE*

*Law:*

Danwood Mzikenge Chirwa, LLB(Hons) *Malawi* LLM *Pret* PhD *UWC*  
Practitioner of the High Court of Malawi

*Science:*

Maano Freddy Ramutsindela, MA *UNIN* PhD *London* FSSAG

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

Alan Frank Cliff (Interim), HDE BA MEd *Cape Town* PhD *Auckland*

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

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

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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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