FACULTY OF SCIENCE (CEREMONY 1)

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 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.

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, 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 SCIENCE

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

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

Dean: Professor M Ramutsindela

DEGREE OF BACHELOR OF SCIENCE

Sasha Luca Abramowitz (with distinction in Computer Science and Computer Games Development) Shane Gregory Acton (with distinction in Computer Games Development) Ibrahim Adams Brandon Nicholas Addison Avanda Nyameka Africa Riyaadh Ahmed Yasien Gamal Saad Amer Leah Amod (and that the degree was awarded distinction in Chemistry, Genetics and the degree with distinction) Mikhail Rageem Amod Ruth Emily Amoore Nikhil Hasmukh Amtha Jessica Tiffany Arro Alka Baijnath Ariella Barnett (with distinction in Genetics) Bianca Baum *James Beatham *Claudia Lorenza Beltramo (with distinction in Human Anatomy & Physiology, Genetics and the degree with distinction) Joshua Daniel Benjamin Kirstin Lee Bloomer (with distinction in Biochemistry, Genetics and the degree with distinction) Olivia Carla Bloomer (with distinction in Genetics) Reuben Benny Booi Sonwabile Alfred Booi Thomas Kenneth Borchert Dino Bossi (with distinction in Computer Science) Jessica Jean Bourn (with distinction in Computer Science, Genetics and the degree with distinction)

Silke Freia Brandt (with distinction in Applied Biology and Marine Biology) Megan Adams Brown Erin Buchanan (with distinction in Biochemistry, Genetics and the degree with distinction) Kirsten Emma Buchanan (with distinction in Biochemistry) Chloe Victoria Buck (with distinction in Biochemistry) Caitlyn Callanan (with distinction in Applied Biology and Marine Biology) Kimberley Jane Cameron Duncan James Campbell Carole-Keza Capitaine (with distinction in Biochemistry) Liam Gareth Emmerich Carew Jordv Reece Chetty Adam Mitchell Chin Arad Shulamit Cohen (with distinction in Biochemistry, Genetics and the degree with distinction) Laura Cohen Timothy James Colvin Coles (with distinction in Environmental & Geographical Science) Arron Taylor Lund Correia (with distinction in Biochemistry, Genetics and the degree with distinction) *Leith David Coupland Jonathan George Crowther Diane Beatrice David Kauthar Davids Jose Antonio De Faria Wayne De Jager Ella Hannan Maria De Nicola *Caitlin Dixon Ashleigh Anne Donaldson Aamirah Dramat Ashleigh Dreyer Meluleki Dube Pratish Dullabh Jason Alexander Dunbar Jarryd William Dunn (with distinction in Computer Science, Computer Games Development and the degree with distinction) *Björn Ernest Du Toit Hannah Jade Earl Amy Rene Edwards (with distinction Genetics) Natalie Rose Erskine Rifqah Esau Thethela Faltein

Hana Faulds Philippa Eileen Forshaw Hayli Natanya Geffen (with distinction in Biochemistry, Genetics and the degree with distinction) Ghia Gelderbloem *Brandon Gower-Winter Campbell Oliver Green Liam Adam Greenhalgh Christelle Grimbeek Heng Jia Guo (with distinction in Computer Science, Computer Games Development and the degree with distinction) Abigail Caitlin Gwynn (with distinction in Biochemistry, Genetics and the degree with distinction) Michael Logan Haasbroek Kahla Alexandra Hackner Scott Michael Hallauer (with distinction in Computer Science, Genetics and the degree with distinction) Eesaa Harris (with distinction in Ocean & Atmosphere Science) Sinelethu Hashibi Bongiwe Princess Havi Jaren James Hendricks Sebastian Karl Herbig Wesley Michael Herman Samuel John Hewat Sonia Heye (with distinction in Ocean & Atmosphere Science) Cecil Rodney John Hlungwana *Duncan James Hill Chiao-Yu Hsiao Danielle Rebecca Hunt Massimo Morgan Iovino Abdul Rahman Isaacs Muhammed Ismail Naadirah Ismail Zaahirah Ismail Cayla Jackson Megan Jane Jackson Amber Gabrielle Jones Jordan Emma Jooste Leonidas Marthinus Karamanof (with distinction in Genetics and the degree with distinction) Ruben Edwin Kassier *Modiegi Ellen Kgowa David Fredrick Kheri *Kwanele Goodenough Khomo *Timothy Andrew Kirsten (with distinction in Applied Biology, Environmental & Geographical Science and the degree with distinction)

Adrian Daniel Krige Michael Stefan Lambrecht Sarah Grace Lampert (with distinction in Biochemistry, and the degree with distinction) Ryan Dean Lazar Tumelo John Lephadi *Allegra Alexandra Liltved (with distinction in Geology, Ocean & Atmosphere Science and the degree with distinction) Suzan Boni Mabusi *Robert Peter Maccallum Angus Ian Mackenzie Kyle Maclean Mbulaheni Kelcey Maewashe Lulama Precious Magoqoba Athenkosi Magxwalisa *Caitlyn Daunt Mahony (with distinction in Biochemistry, Genetics and the degree with distinction) Maishe Makwana Hlengiwe Innocentia Malatji Sadivah Malek *Solomon Malesa (with distinction in Computer Science) Viwe Malgas Fhulufhelo Mamali Charné Maré Amy Nicole Marks (with distinction Genetics) Leon Darius Martin Katleho Pono Mathafeng Hamandishe Yakob Mathivha (with distinction in Computer Science, Computer Games Development and the degree with distinction) Lerato May Grace Mayuni (with distinction in Biochemistry, Genetics and the degree with distinction) Siposetu Mbuli Taryn Leigh Mccormack Sthabiso Mhlongo Joanna Barbara Michowicz (with distinction in Biochemistry, Genetics and the degree with distinction) Joshua Mirkin (with distinction in Geology, Ocean & Atmosphere Science and the degree with distinction) Sbonelo Challis Mntungwa Thamaga Mohale Shakeel Mohamed Tshepiso Moilwe *Pitso Petrus Mokoena Jethro James Möller

Rasalika Tamika Moonsamy Onalerona Gorata Mosimege Genevieve Christine Moss Lauren Mouton Mahlako Mphahlele Muhammad Riyaad Mukaddam Christie Munro Alexander Paul Murie Takudzwa Emmanuel Murwira Esenathi Mvundela Olwethu Arthur Myeza *Keegan Naidoo Njabulo Sipho Ndimande Ziyanda Nekhwalivhe Cynic Nemaungane Josephine Agisanang Ngoase Kgabo Dominic Ngoetjana Emily Catherine Nicklin *Gcinile Veronica Nkosi Sive Nondala Odwa Nolusiba Ntloko Luvo Ntshewula Zachary Ben Nudelman (with distinction in Computer Science, Computer Games Development and the degree with distinction) Sabrina Cristina Nunes Alan Kudakwashe Nyanhete Fanuel Nyoni *Benjamin Thomas Oliver (with distinction in Ocean & Atmosphere Science) Sara Chetty Owen Shaylin Padayachee William Craig Paine Kauthar Parker Thaabiet Parker (with distinction in Applied Biology, Ecology & Evolution and the degree with distinction) Trisha Divieshkumar Patel Zafeer Abdul Patel Srishti Kiran Pattundeen Kirsten Pennington (with distinction in Business Computing, Computer Science and the degree with distinction) Jason Lemmert Pietersen Tyler Treshlen Pillay *Elena Alexandra Maxwell Piller Natasha Pindral Jonathan Ingo Pollock (with distinction in Biochemistry, Genetics and the degree with distinction) Dylan Marcel Postmus (with distinction in Biochemistry, Genetics and the degree with distinction)

Kimone Premlall (with distinction in Business Computing and the degree with distinction) Pieter Cilliers Pretorius Wilhelm Prins Thembiso Mulisa Ragimana Kiara Ramjith Humbelani Simon Ramulumo *Joshua Leslie Redman Kvle John Robbertze *Muhammad Azhar Rohiman Tayla Jane Ross (with distinction in Biochemistry) Robert Thomas Sadler Moegamat Iesgaq Samsodien Elsa Caetano Da Conceicao Dos Santos Tashka Schulz *Daniel Schwartz Kyra Emily Scott (with distinction in Psychology) Michelle Ashleigh Scott Mose Diana Sebastian Keneilwe Sebulela Diya Gitanjli Seeburrun Nicole Njemu Sekgoma Joshua Stephen Selfe (with distinction in Human Anatomy & Physiology, Genetics and the degree with distinction) Abigail Victoria Sendall Thembeka Cebile Shongwe Clavton Sibanda Pavan Singh Minenhle Ntando Sithole Claudia Ann Smith (with distinction in Genetics) Shannon Margaret Smith Camilla Alice Smyth (with distinction in Applied Biology and the degree with distinction) Sean Patrick Sproul Gabriella Morgan Stapley (with distinction in Applied Biology) Moegamat Ra-Eez Moegamat Stenekamp Mark Philip Stone *Taella Morgan Thiart Christopher James Thurling Liron Jacov Toledo Tesha Toolsee Jessica Jane Tvrrell Taron Jessica Van Der Berg *Michelle Helen Vrettos (with distinction in Ecology & Evolution and the degree with distinction) *Harley Henny Wandrag Mughammad Saleigh Warner (with distinction in Computer Science)

Laurens Weyn (with distinction in Computer Science) Michael James White (with distinction in Computer Games Development) Alexandra Catherine Whitehouse (with distinction Genetics) Gabriella Mia Wilensky Rhys Willmore Storm Wilson Michelle Anneli Winter Shannon Wonfor (with distinction in Biochemistry, Genetics and the degree with distinction) Robert Thomas Hellier Wood Sive Xokashe

DEGREE OF BACHELOR OF SCIENCE (HONOURS)

In Archaeology: *Ruan Brand (first class) Amy Grace Hatton (first class) *Gizelle Mignon Kotze Bacara Ashleigh Spruit (first class)

In Atmospheric Science:

*Peter Anthony Marsh (first class) Sindiswa Thembela Anita Mdlalose Trisha Parbhoo (first class)

In Biological Sciences: Klara Beckerling Shonese Thora Bloy Carla Claire De Cerff Samantha Kirves (first class) *Guy Nicholas Logan Jess Lund (first class) Jonathan Christopher Michael Plaistowe Marianne Putz Michael Duncan Ross (first class) Caton Maria Schutte *Megan Rose Woolley (first class)

Lara Wootton (first class)

In Chemistry: *Nielfah Ebrahim *Larnelle Faye Garnie (first class) Taryn Marcelle Golding Kim Louise Jackson (first class) *Maximillian Ludwig Keresztesi Linda Lufuta Sinethemba Mkhize Kedibone Gudani Muguru Tayla Lee Wilson In Computer Science: *Robert Barnhoorn *Robert Peter Bodlev Jonathan David Bouwer (first class) Takunda Albert Chikondo Daniel John Collins Kushal Shewock Shaw Cuppoor (first class) *Shang-Ping Dai Oliver De Bruin (first class) *Imaan Dolley Adam Edelberg Jarrod Jonathon Finnis Alexander Furman (first class) *Guy Andrew Orpen Green Claudia Maria Grindlay (first class) Andrew James Howe-Ely (first class) *David Griffin Jones (first class) Jonathan Paul Leyland (first class) Breyden Monyemoratho Ntokozo Motsumi *James Andrew Murray Danielle Rose Nagar (first class) Dzunisani Robinson Ndlhovu Luke Sebastian Neville (first class) Masixole Ntshinga *Thomas Daniel Tiaan Pownall (first class) Elijah Kevin Roussos (first class) Paul Gordon Roux (first class) *Dylan Sims (first class) *Jason Ronald Smythe Zakariyah Toyer (first class) Gianluca Truda (first class) *Ross Van Der Heyde Jocelyn Leigh Van Heerde (first class) *Neville Varney-Horwitz

In Environmental & Geographical Science: Michael Philip Anthony Armitage (first class) Yakhuluntu Dubazana Natasha Elaine Else Sivuyisiwe Mapapu Aisha Wanjiru Mugo (first class) *Maia Roxanne Nangle Kolosa Ntombini (first class) Irvine Simbarashe Sibehla *Ricardo Vasapolli

In Geology: *Brent Bourchier Bowker Gordon William Harding *Timothy Leonard Jones Wendy Hlengiwe Khumalo *Ntuthuko Phakama Khuzwayo Teboho Lekaota Nkotsi In Information Technology: Tassallah Amina Abdullahi Joshua Juan Abraham *Gregory Austin Tahir Moolla Pieter Johannes Van Der Walt (first class) In Marine Biology:

Teeiaswani Bachoo *Michael Andrew Bennett *Rouane Mai Brokensha (first class) *Casha De Vos *Matthew Germishuizen Lisa Hodgson *Jemma Elizabeth Lewis Candice Anne Lortan In Molecular & Cell Biology: *Robyn Elizabeth Craythorne (first class) Stephanus Francois Du Toit (first class) *Lee French (first class) *Jasmin Fay Camilla Knopp (first class) Kimberley Tawanda Midzi Rethabile Mokupi *Zohra Peer *Mayur Prag (first class) *Kristin Ruth Winkler (first class) In Ocean & Atmosphere Science: Maria Kristina Ingreso Tavla Susan Louw James William Maitland (first class) Anathi Olwethu Manyakanyaka

Jason Peter Oconnor Brandon Michael Opie *Anna Liisa Penelao Tulimevava Shangheta Wanjiru Thoithi (first class) Sina Wallschuss (first class) Ashleigh Catherine Stevenson Womack

DEGREE OF MASTER OF PHILOSOPHY

In Information Technology: Frans Letsukulo Ramphele

DEGREE OF MASTER OF SCIENCE

In Applied Ocean Sciences (Operational Oceanography): *Yotam Fadida (with distinction)

In Archaeology: Kelvin Mukabeta In Chemistry:

Consolata Nsanzimpaka Nsanzubuhoro (with distinction)

- *In Climate Change & Development:* Casey Tara Lyttle
- In Computational Science: Ananya Gangopadhyay (with distinction)
- In Computer Science: Edmore Tutsirayi Moyo Adrianna Barbara Pinska
- In Environmental & Geographical Science: Quraisha Bux
- *In Environment, Society & Sustainability:* Deirdre Botha

In Geology: T'Nielle Haupt

In Ocean & Atmosphere Science: Jessica Mary Burger (with distinction) Keneilwe Motlalepula Hlahane

In Physical Oceanography: Cristina Serena Russo

DEGREE OF DOCTOR OF PHILOSOPHY

In Biological Sciences: Alexander Adnan Awad Thesis Title: Testing the use of port biological baseline surveys to support relevant marine alien species management applications in Africa

Adnan Awad holds two BSc degrees (Zoology and Environmental Science) from the University of Washington, USA, and a MSc in Conservation Biology from UCT, which he earned in 2000. He rejoined the School of Biological Sciences at UCT in 2015 for his PhD studies. While undertaking his PhD he has been working for an international NGO, based in Cape Town, on issues related to ocean management and conservation.

Adnan Awad's thesis focuses on marine alien and invasive species, particularly interrogating the nexus between science and management in the African context. He investigates how to effectively survey port areas for relevant species data to support regulatory approaches to prevent species introductions. He uses biological survey projects that he conducted over several years at ports in South Africa, Kenya and Mauritius to demonstrate and refine a methodology that is applicable in capacity-challenged areas. He then tackles the resulting management implications through the development of risk assessment-based tools to guide and support the actions of the relevant authorities.

Supervisor: Emeritus Professor C Griffiths (Biological Sciences)

Heath Beckett

Thesis Title: *Firestorms in a mesic savanna-forest mosaic*

Heath Beckett completed his BSc and BSc(Hons) qualifications at UCT. He upgraded his MSc to a PhD in 2014, having spent time at the University of the Witwatersrand and Princeton University as a Visiting Student Research Collaborator.

Heath Beckett's thesis focuses spatiotemporal vegetation the on dynamics in fire-prone savanna and fireaverse forest mosaics in Southern Africa. He investigated the drivers of bistability and coexistence of these vegetation types, focusing on the effects of wind and topography in creating fire refugia, where forests can establish in fire-prone environments. He went on to investigate the recovery of vegetation that had burnt in a number of extreme fire events or firestorms, the conditions under which switches between vegetation types occur, and, through a global synthesis of woody plant functional traits, identified key axes of functional variation in savanna-forest trees. These findings highlight the need for nuanced savanna conservation and fire management in a rapidly changing world.

Supervisor: Emeritus Professor W Bond (Biological Sciences)

In Chemistry: Peter Mubanga Cheuka Thesis Title: Antimalarial imidazopyridazines and aminopyrazines: synthesis, physicochemical optimization and structure-activity relationships

Peter Cheuka holds BScEd and MSc degrees in Chemistry from the Universities of Zambia and Cape Town, respectively. He has been an academic staff member at University of Zambia for 5 years.

Peter Cheuka's thesis focuses on the discovery of new chemical entities (NCEs) to counter the problem of resistance by the human malaria parasite to current antimalarial treatment options. He focuses on two chemical classes - the imidazopyridazines and aminopyrazines, primarily focussing on optimising their antimalarial activity and physicochemical properties, while reducing toxicity. He designs the NCEs by incorporating chemical features with potential to address the liabilities identified in earlier studies. He uses diverse methods to synthesise the designed NCEs and measures their antiparasitic activity, solubility, toxicity and metabolic stability. This has led to his identification of NCEs possessing a combination of good solubility, antiparasitic activity and an improved safety profile. His correlation studies further establish a link between the introduced chemical changes and the observed physicochemical properties. Using computer-aided drug design Peter Cheuka approaches, further sheds light into how the investigated antimalarial molecules bind to their target parasite protein.

Supervisor: Professor K Chibale (Chemistry)

In Computer Science:

Mabule Samuel Mabakane Thesis Title: *Effective visualisation of callgraphs for optimisation of parallel programs: a design study*

Mabule Samuel Mabakane holds bachelor's and master's degrees in Information Technology from the Tshwane University of Technology. He has been studying part-time towards his PhD since 2012.

Mabule Mabakane's thesis reports on the design of a novel visualisation to effectively identify performance bottlenecks within parallel programs. Such visualizations are used to optimize the performance of parallel algorithms that perform scientific high calculations on performance computers. He employed a user-centred iterative methodology to design a new visualisation, involving expert users in the three developmental stages of the system, from a paper prototype to high fidelity interactive prototypes in the final design. The final result is a novel, effective visualisation that is demonstrably an improvement on previous systems and should enable more rapid optimisation of parallel programs.

Supervisor: A/Professor M Kuttel (Computer Science)

In Conservation Biology: *Benjamin James Dilley Thesis Title: The effects of introduced mice on seabirds breeding at sub-Antarctic Islands

Benjamin Dilley completed his BScHons at UCT in 2011, after spending a year as a seabird assistant on Marion Island, and has been working towards his PhD since 2012. During this time, he spent another year on Marion as well as one on Gough Island.

Benjamin Dilley's thesis focuses on two large oceanic islands, Marion and Gough Islands, where introduced mice eat seabird chicks and eggs. He assessed how many seabird species are affected by installing custom-built video cameras at nests to record mouse attacks and quantified the impacts by monitoring breeding colonies of multiple species over several breeding seasons. In addition, he established baseline estimates of burrownesting petrel populations at Marion Island and investigated how populations have recovered since cats were eradicated in 1991. His findings show how mice can be serious predators that suppress the growth rates of seabird populations. He concludes that this may significantly affect threatened seabird species at both islands, where the frequency and severity of mouse predation has escalated in recent years. His findings have helped persuade funders and governments to support mouse eradication operations at both study islands.

Supervisor: Professor PG Ryan (Biological Sciences)

In Environmental &

Geographical Science: *Liza Rose Cirolia Thesis Title: Accounting for the C/city: analyzing Kisumu's fiscal configurations

Liza Rose Cirolia holds a BA from University of California Berkeley and a Master of City and Regional Planning from UCT. She has been working at the African Centre for Cities as a researcher for the past six years, focusing on urban infrastructure, housing and finance. She joined Faculty of Science in 2016 to pursue her PhD.

Conceptually and methodologically, Liza Cirolia's thesis draws together urban public finance and urban studies to produce an interdisciplinary framework for the fiscal study of African cities. To ground this endeavour, she uses a case study of Kisumu, a secondary city in Kenva. In the thesis, Liza Cirolia unpacks the historical development of Kisumu's urban financing and the contemporary fiscal arrangements of the sub-national government. Following this, she traces three particular fiscal configurations, land rates, water corporatisation, and transport grants, to better explore the relationships between the material, fiscal, and institutional city. She concludes that the fiscal study of Kisumu provides insights into importance of understanding money and how it flows, the social and political dimensions of fiscal arrangements, the practices and micro-politics of fiscal functionaries, and the potential for new infrastructure and finance arrangements in African cities.

Supervisor: Emeritus Professor S Parnell (Environmental and Geographical Science) *Carly Ruth Cowell

Thesis Title: *Exploring the past and the present in order to predict the future: herbarium specimens, field data and extinction probability for conservation managers*

Carly Cowell is a Regional Ecologist with the South African National Parks. She completed her Bachelor of Technology and Master of Technology degrees at the Cape Peninsula University of Technology. In 2013 she began her studies towards her PhD at UCT.

Carly Cowell's thesis investigates the use of historic and contemporary botanical records in support of protected areas mandates to conserve biodiversity and heritage. She explores the contribution of botany to the development of science, via analysis of historic botanical explorers, their collections and methods. She goes on to investigate the existence of original plant collection sites within national parks as biocultural heritage sites using herbarium specimens. Using an extinction probability equation, she tests the use of herbarium and survey data to predict plant extinction in a national park. Using the findings of this test she uses in-field detection to determine whether plant species are indeed extinct. Her research demonstrates the significant and multifaceted value of botanical collections beyond current recognition. For this value to be fully recognised botanical data requires synthesis and improved curation to be useful in determining monitoring priorities for biodiversity and heritage conservation.

Supervisor: Dr P Anderson (Environmental and Geographical Science) Co-supervisor: Dr W Annecke (South African National Parks)

*Catherine Dale Ward Thesis Title: Climate variability in social-ecological systems of the Southern Cape: integrating farming and fishing perspectives

Catherine Ward holds BSc, BScHons and MSc degrees in Environmental Science

from Rhodes University. She joined UCT in September 2014 to begin her PhD studies. Before this, she worked for an environmental science communication group under the University of Maryland Center for Environmental Science, USA.

Catherine Ward's thesis focuses on bringing together knowledge systems from farmers, linefishers and local scientific weather sources to examine climate variability in terrestrial and marine social-ecological systems of the southern Cape, in order to bring local perspectives into conversation with scientific data outputs. Her research reduces the uncertainties associated with any single set of observations and confirms two environmental regime shifts in the region, in the mid-1990s and at the end of the 2000s, which are corroborated by farmers and fishers. Her research also contextualises responses to change under the theme of climate variability from farmers' and fishers' perspectives, and shows how different, current theoretical discourses can work in a complementary fashion to address complexity. This local-based case study builds towards improving understanding of complex social-ecological systems under global change in an effort to contribute to future adaptation strategies in the southern Cape region.

Supervisor: A/Professor A Jarre (Biological Sciences) Co-supervisors: Dr G Cundill Kemp (Environmental Science, Rhodes University); Professor G Midgley (Botany and Zoology, Stellenbosch University)

In Molecular & Cell Biology: Johnson Mosoko Moliki Thesis Title: Synergism between immune activators and progestogens: differential effects on gene expression and HIV-1 replication and the role of the glucocorticoid receptor

Johnson Moliki holds a BSc (Biochemistry) and MSc (Biochemistry) from the University of Buea, Cameroon. He began full-time study towards his PhD in 2011.

A critical question for women's health in Sub Saharan Africa is whether some contraceptives increase the risk of HIV-1 acquisition. Johnson Moliki's thesis investigates whether different progestogens used in hormonal contraception act alone or cooperate with immune activators associated with genital tract infections, to regulate HIV-1 replication and gene expression in vitro. MPA, unlike NET, was found to act alone or cooperate with immune activators to increase HIV-1 replication. MPA, unlike NET, was shown to act via the glucocorticoid receptor to reduce the expression of genes required to maintain the integrity of the female genital mucosal barrier but upregulate in a synergistic manner the expression of select innate immune receptors and soluble mediators involved in mucosal and systemic trafficking of specific HIV-1 target cells. These results suggest that NET used in Nuristerate may be a better choice for injectable contraception than MPA used in Depo Provera for women in areas with high risk of HIV-1 and other genital tract infections.

Supervisor: Professor J Hapgood (Molecular and Cell Biology) Co-supervisor: Dr C Avenant (Molecular and Cell Biology)

In Ocean & Atmosphere Science: Arielle Stela Nkwinkwa Njouodo Thesis Title: On the role of the Agulhas Current on weather and climate of South Africa

Arielle Stela Nkwinkwa Njouodo holds an MSc in Physics from University of Yaoundé, Cameroon and a co-badged MSc in Physical Oceanography from University of Abomey-Calavi, Cotonou, Benin and University of Toulouse, France. She joined the Department of Oceanography at UCT in April 2015 to start her doctoral research.

Arielle Stela Nkwinkwa Njouodo's thesis focuses on the impact of Agulhas Current on Southern African climate and weather. Although it was known that high evaporation rate and transfer of moisture exists from the Agulhas Current to the atmosphere, there was no study so far that demonstrated that the Agulhas Current could have an impact on the weather and climate of Southern Africa and what where the mechanisms behind the phenomenon. After a thorough validation of data and model outputs, she demonstrates that the warm core of the Agulhas Current, due to high evaporation and turbulent mixing, drives a band of coastal precipitation above the current and along the east coast of South Africa where the Current is adjacent to the coast. Additionally in summer, due to the warm Agulhas Current sea temperature, the moisture above the current is advected inland from the south leading to more precipitation above the continent.

Supervisor: A/Professor M Rouault (Oceanography) Co-supervisor: Professor N Keenlyside (University of Bergen, Norway)

In Zoology:

* Elsa Marion Bussière Thesis Title: *Camera traps as sensor networks for space-time exploration of terrestrial mammal communities*

Elsa Bussière grew up in Paris. She qualified as an Ingénieure Agronome from ENSAIA and completed her MSc at the University Henri Poincaré in Nancy, France. She spent one year in Hwange National Park, Zimbabwe, working as a field biologist for the CNRS. She began full-time study towards her PhD at UCT in 2012.

Elsa Bussière's thesis focuses on providing new analytical methods to explore large ecological datasets collected with camera trapping technology and attaining deeper knowledge of the mammal community assembly and structure over space and time. She went on to investigate some of the ecological forces driving species coexistence in the local mammal community of the Little Karoo. She showed subtle and continuous nuances in the spectrum of habitat preferences, as well as patterns of seasonal occurrence within species circadian rhythms. She also examined temporal-partitioning as a mechanism driving species sympatry. Finally, using spatially explicit capture-recapture models, she estimated leopard population density in relation to terrain ruggedness.

Supervisor: Emeritus Professor L Underhill (Biological Sciences) Co-supervisor: Dr G Distiller (Statistical Sciences)

ACADEMIC DRESS

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.

ACADEMIC DRESS (continued)

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

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.

THE UNIVERSITY OF CAPE TOWN DONOR ROLL

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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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.

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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 – <u>http://www.uct.ac.za/dad/alumni/update/</u> - 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!