
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 member 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.

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.

FACULTY OF SCIENCE

Acting Dean: Professor S A Bourne

DEGREE OF BACHELOR OF SCIENCE

Luqmaan Adamson	Damien Bronkhorst (with distinction in Human Anatomy & Physiology and Genetics)	Kirsten Clair Flanagan (with distinction in Human Anatomy & Physiology)
Mahnoor Ahmed	Marijke Bruins	Maggie Fok
Ural Jonathan Alp (with distinction in Computer Science, Computer Games Development and the degree with distinction)	Esther Burger (with distinction in Applied Biology and Ecology & Evolution)	Luvo Fokazi
Haingotiana Sarah Andrianarisoa	Jessica Burns	Jason Forsyth
*Faine Mordechai Angel	Claire Mary Butters	Lee French (with distinction in Human Anatomy & Physiology, Biochemistry, Genetics and the degree with distinction)
Mekondjo Erwin Angola	Liam Aidan Byren	Alexander Damon Furman
*Megan Jacqueline Anley	Kathryn Frances Byrnes (with distinction in Ocean & Atmosphere Science)	Tamlyn Kirstey Gangiah
Michael Philip Anthony Armitage	Megan Loraine Campbell	Chelene Ganz (with distinction in Human Anatomy & Physiology)
Tyrone Michael Arnold	Fabrizio Carelle	Larnelle Faye Garnie (with distinction in Chemistry, Biochemistry and the degree with distinction)
Shannon Aimee Attwell	Timothy Dean Chambers	*Sarah Kathy Geel (and that the degree was awarded with distinction in Human Anatomy & Physiology)
Teejaswani Bachoo	Nitara Chandika	*Nicole George
Athi Baliso	Tariro Alfa Chatiza (with distinction in Human Anatomy & Physiology)	Matthew Germishuizen
Michelle Colleen Barboure (with distinction in Biochemistry and Genetics)	Suwilanjhi Chibale	Taryn Marcelle Golding
Robert Barnhoorn (with distinction in Computer Science)	Takunda Albert Chikondo	Stephanie Goosen
Saeeda Bassardien	Anna-Lucia Christodoulou	*Monique Cynthia Gosai
Klara Beckerling	Robyn Elizabeth Craythorne (with distinction in Genetics)	Perna Gowreesunker (with distinction in Biochemistry, Genetics and the degree with distinction)
Lauren Eve Beghin	Kushal Shewock Shaw Cuppoor (with distinction in Computer Science and the degree with distinction)	Joshua Hughes Gullan (with distinction in Human Anatomy & Physiology)
Kerry Bellairs	Christen Da Costa (with distinction in Human Anatomy & Physiology and Biochemistry)	Mnotho Lethukuthula Gumede
Claire Bellis	*Shang-Ping Dai	Samantha Megan Hale
Michael Andrew Bennett	Bronte Robyn Davies	Aniq Hartle
*Kate Francis Bergh (with distinction in Human Anatomy & Physiology and the degree with distinction)	*Damian Benedict De Agrela	Amy Grace Hatton
Shonese Thora Bloy	Oliver De Bruin	Jaid Hope Heesen
*Robert Peter Bodley	Carla Claire De Cerff	Charlotte Claire Hindle
Jonathan David Bouwer (with distinction in Computer Science, Computer Games Development and the degree with distinction)	Casha De Vos	*Claudia Hitzeroth (with distinction in Applied Biology)
Brent Bouchier Bowker	Grethen De Waal	Sibulele Siyamtanda Hlongwane
Ruan Brand (with distinction in Archaeology)	*Bruce Maximillian Dickie	Lisa Hodgson
Rouane Mai Brokensha (with distinction in Marine Biology)	Zoe Dilmitis	Alison Ann Hoernle (with distinction in Chemistry, Computer Science, Human Anatomy & Physiology and the degree with distinction)
	Imaan Dolley	Samantha Lea Hops
	Clare Downie	*Mia Hordijk
	Luka Dreyer (with distinction in Environmental & Geographical Science, Afrikaans and the degree with distinction)	Peter Andrew John Hudson (with distinction in Ocean & Atmosphere Science)
	Nadine Du Plessis	Jodi Jayne Hulley
	*Stephanus Francois Du Toit	Maria Kristina Ingreso
	Zayd Ebrahim	Bhavik Kantilal Jassa
	Adam Edelberg	David Griffin Jones (with distinction in Computer Games Development)
	Natasha Elaine Else	Timothy Leonard Jones
	*Rayaan Fakier	Gary Kahn
	Francis Leonora Fick (with distinction in Archaeology and Environmental & Geographical Science)	
	Stephanie Fillmore	
	Jarrold Jonathon Finnis	

*Eunjeong Kang
Maximillian Ludwig Keresztesi

*Siphelele Pretty Khanye
Faith Noxolo Khohliso
Wendy Hlengiwe Khumalo
Ntuthuko Phakama Khuzwayo

*Gizelle Mignon Kotze

*Thembalethu Krakri
Elana Astrud Kroneberg
Ajhan Laloo
Ross Anthony Cameron Lampard
Kaelan Jesse Lang
Nina Lang
Mishka Latib
Relebohile Elliot Lecheko
Kieron Harold Mathew Lenton (with distinction in Human Anatomy & Physiology and Biochemistry)

*Francois David Le Roex
Jemma Elizabeth Lewis
Raphaella Lewis
Jonathan Paul Leyland
Tayla Susan Louw
Linda Lufuta
Jess Lund (with distinction in Ecology & Evolution)
Micaela Lurie
Xiao Lucia Ma
James William Maitland
Bulelani Onamandla Makapela
Andisiwe Malo
Neo Mancapa
Anathi Olwethu Manyakanyaka

*Antaya Lauren Alexandra March
Peter Anthony Marsh
Nkululeko Bongokuhle Maseko
Niyanda Sibulele Maseti
Somila Mateza
Nhluvuko Mathebula
Michaelah Maxwell

*Thandeka Thobeka Mazubane
Mbalentle Cassandra Mbambisa (with distinction in Biochemistry)
Josephine Amy McCann
Caitlin Mary McIntosh (with distinction in Biochemistry, Genetics and the degree with distinction)
Adam Alexander Meier
Malibongwe Mfiki
Nicole Emma Midgley
Kimberley Tawanda Midzi
Ashley Frances Minkley
Demi Samantha Mitoulis
Reabetswe Daniel Mohulatsi

*Tumelo Mokhatla
Rethabile Mokupi
Breyden Monyemoratho

Botlhale Motlatsi Michelle Mosoane
Masebune Alfred Mothapo
Zukiswa Tshiamo Motsokane
Ntokozo Motsumi
Ntuthuko Mthiyane
Aisha Wanjiru Mugo
Kedibone Gudani Muguru
Mwaba Constance Mumba

*James Andrew Murray
Danielle Rose Nagar (with distinction in Computer Science, Computer Games Development and the degree with distinction)
Saiyukthi Naidoo (with distinction in Human Anatomy & Physiology)

*Nganeavhutshilo Nangammbi
Gillian Ophelya Nondumiso Ndhlovu
Lubabalo Ndidi
Noluvuyo Ndila
Luke Sebastian Neville (with distinction in Computer Engineering and the degree with distinction)
Schae Jenay Niekerk
Nicholas William Matthias Notten
Kolosa Ntombini

*Masixole Ntshinga
Jason Peter O'Connor (with distinction in Ocean & Atmosphere Science)
Brandon Michael Opie
Shanay Paideya
Jeanette Manyatsa Papo
Trisha Parbhoo
Angelie Paupiah
Nakkita Harisha Lungoomeah Pillay

*Jonathan Christopher Michael Plaistowe
Mayur Prag (with distinction in Human Anatomy & Physiology, Biochemistry, Genetics and the degree with distinction)
Sejal Pramlall (with distinction in Ocean & Atmosphere Science and Marine Biology)
Marianne Putz
Tholoana Agnes Matsaba Ramokhoro

*Adam William Romyn
Michael Duncan Ross (with distinction in Applied Biology and the degree with distinction)
Elijah Kevin Roussos
Paul Gordon Roux
Gheda Ali Salum
Joseph Naim Sassoon

*Matthew Paul Philip Schnell
Saskia Schroder
Maxine Minette Schuiling

Michaela Claire Schultz (with distinction in Human Anatomy & Physiology, Genetics and the degree with distinction)

*Caton Maria Schutte
Tiana Carina Schwab (with distinction in Biochemistry, Genetics and the degree with distinction)
Brandon Scott
Shaun Seaward
Lebogang Gold Selepe
Anna Liisa Penelao Tulimevava
Shangheta
Kamogelo Shika
Dylan Sims
Mohamed Najeeb Sirkhoth
Brigitte Sprung
Simone Leah Storey (with distinction in Psychology)
Shawn Lee Swanson
Daniel Muyinda Tamale

*Laetitia Sharon Tang Sip Shiong
Danika Marion Taylor
Wanjiru Thoithi
Sasha Tinelli (with distinction in Human Anatomy & Physiology, Biochemistry and the degree with distinction)
Zakariyah Toyer (with distinction in Computer Science, Computer Games Development and the degree with distinction)
Matthew Troost
Gianluca Truda
Salem Tsvangirayi
Ross Van Der Heyde
Jocelyn Leigh Van Heerde
Timothy Patrick Van Reenen Mostert
Nici Beatrix Van Zyl
Ricardo Vasapolli
Katherine Jane Elisabeth Wallis
Sina Wallschuss (with distinction in Ocean & Atmosphere Science)
Mikaela Watson
Timothy Wells
Jason Michael Werner
Grant Haldane Wilson
Tayla Lee Wilson
Kristin Ruth Winkler (with distinction in Biochemistry, Genetics and the degree with distinction)
Adrian Steven Withers
Ashleigh Catherine Stevenson Womack (with distinction in Ocean & Atmosphere Science)

*Emilie Debra Wood (with distinction in Computer Engineering and Computer Science)
 Megan Rose Woolley (with distinction in Marine Biology)
 Lara Misty Wootton (with distinction in Applied Biology, Ecology & Evolution, Music and the degree with distinction)
 Ming-Chen Wu (with distinction in Human Anatomy & Physiology)
 *Matthew David Young
 Phiwe Zuma
 Nompilo Pearl Zungu
 Phindi Zwane

DEGREE OF BACHELOR
 OF SCIENCE (HONOURS)

In Archaeology:
 Jordan Ryan Scholfield

In Atmospheric Science:
 Luleka Dlamini (first class)
 Tlakale Onela Mogebeisa
 *Ian Nathaniel Robertson

In Biological Sciences:
 Kayla Tracey Atkins
 Silke Geugis
 *Amy Miriam Hoffenberg (first class)
 *Billi Ann Krochuk (first class)
 *Katrina Leela (first class)
 Lehmann-Grube
 *Daniel Joseph Marcus
 *Kyra Mckellar
 *Rebecca Peacock Muller
 *Michelle Pretorius (first class)
 Jessica Dorothy Roberts
 *Hannah Rebecca Simon (first class)
 *Lucy Kay Smyth (first class)
 Miqkayla Stofberg
 *Llewelyn Van Der Pas
 Ruan Van Mazijk (first class)
 *Tara Nair Van Ryneveld (first class)
 *Eleanor Ashley Weideman (first class)
 Giovannina Dawn Zizzamia (first class)

In Chemistry:
 *Lenard Leslie Carroll (first class)
 Stephen George De Doncker
 Farhaan Dobah
 Richard Ferger
 Kuziwa Trevor Gowero
 Allan Martin Huysamen
 Fatima-Zahra Ishmail

Kgaugele Esther Letsoalo
 Devro Andrew Mcgregor
 Diana Robyn Melis (first class)
 Shoneeze Simone Renga
 Carine Rugorirwera
 Emma Jane Tiffin
 Athi Welsh (first class)

In Computer Science:
 Aghmat Abrahams
 *Michele Ramon Fiorentino Balestra (first class)
 Anna Sergiyivna Borysova (first class)
 Amy Lauren Brodie
 David Casper (first class)
 Matthew Pinchuck Cherry
 Julian Zvikomborero Chingoma
 Yusri Dollie (first class)
 *Raees Eland
 *Nikhil Gilbert
 James Godlonton (first class)
 William Macgregor Grant
 *Victor Gueorguiev (first class)
 Gina Gabrielle Horscroft (first class)
 Jordan Lee Kadish
 Adam Simon Kaliski
 *Shaheen Karodia (first class)
 *Nosipho Khumalo
 Kristin Kinmont (first class)
 *Shaheel Koooverjee
 *You-Haur Liu (first class)
 *Wei Chi Lu (first class)
 Nthabiseng Sarah Mashiane
 Ednecia Sewagodimo Matlapeng
 Rethabile Emmanuel Moshesha
 Marion Mugabirwe
 *Kgotso Nkosi
 Omondi Aoi Ochieng
 Casey Brian O'Donnell (first class)
 Norman Klaas Pilusa
 Phillip Calvin Ruhesi
 Barak Yosef Setton
 Tashiv Sewpersad (first class)
 Soham Hanuman Singh (first class)
 Julius James Stopforth
 Reid Terence Swan (first class)
 *Steven Arthur Tupper
 *Sinead Zara Urisohn (first class)
 Erin Versfeld
 Sabelo Sihle Xulu

In Environmental & Geographical Science:
 Alveena Aziz
 Fahad Aziz
 Khadra Ghedi Alasow (first class)
 Simlindile Fundiswa Miranda Mahlaba
 *Fatima Mohamed

Sarah Elizabeth Reeves (first class)
 Celeste Renaud (first class)
 Setsabile Thwala

In Geology:
 Tshepiso Elias Bopape
 Siyanda Mabaso
 *Maposholi Mokhethi
 *Xolamzi Mqhayi
 *Chad Jordan Peel
 *Akhil Rampersadh
 *Guy William Salomon (first class)
 *Lorena Tafur (first class)
 Aaron Vardi

In Information Technology:
 *Roy Pavel Samuel Henha Eyono
 *Jonah Graham Hooper
 Andre Loucao Lopes
 *Lavius Nkateko Motileng
 *Siseko Neti
 Denham Ray Preen

In Marine Biology:
 *Robyn Alessandra Altmann
 Vivienne Nicole Coetzee
 Maxine Lee Cruickshank
 *Sebastian Colin De Vos (first class)
 *Dayna Courtney Hegarty
 *Amalia Grace Krupandan (first class)
 Michelle Lee
 Michaela Martins (first class)
 Thando Mazomba
 Ukarapo Tracey Mungunda
 Lindsay Sue Powell
 Kelli Jade Ross
 Shakirah Rylands
 *Clara Steyn
 *Liam Louis Joseph Weber

In Molecular & Cell Biology:
 *Nyasha Aura Chimhandamba
 *Sarah Johanna Fernandes (first class)
 *Paul Thomas Ferrandi (first class)
 Andrew Gregg Gillard
 Mpho Clementine Kganyago
 Frances Glennie Lees
 *Julia Katherine Le Maitre
 Rebeng Ayakha Maine (first class)
 Tendani Manenzhe
 *Valerie Francesca Alexandra March (first class)
 *John Alexander Mcalery
 Runako Muzwidzwa (first class)
 Jason Christopher Delville Naude
 David Christopher Newey
 Timothy Plasket (first class)
 Adeebah Rakiep

Lithakazi Soshankana
*Brittany Ann Turner
*Rachelle Van Der Colff (first class)
*Lize-Mari Van Der Linden (first class)
Rabia Viljoen
Julia Abigail Watson (first class)
Leah Whittle

In Ocean & Atmosphere Science:
Riesna Reuben Audh (first class)
*Sean Evans (first class)
Tumelo Admiral Maja (with distinction)
Nkuleleko Memela
Ruan George Parrott
Jonathan James Rogerson (first class)
*Nicholas Mikael Salonen (first class)
Shantelle Smith (first class)
Kurt Angus McDonald Spence
(first class)

DEGREE OF MASTER
OF PHILOSOPHY

In Environment, Society & Sustainability:
Tina Thi Nguyen

DEGREE OF MASTER OF SCIENCE

In Applied Marine Science:
*David Bryce Purchase

In Biological Sciences:
*Victoria Jane Johnson
Kirtanya Lutchminarayan
Alice McGrath
Itani Victor Mutavhatsindi
Jacques Nel
Mark Jonathan Weston

In Botany:
Kirsten Francis Packer

In Computer Science:
*Zola Mahlaza

*In Environmental & Geographical
Science:*
Jessica Leigh Fell
Tunehafo Ruusa Gottlieb
Laura Gillian Underhill

In Environment, Society & Sustainability:
*Boitshekwane Kgantsi

In Geology:
Keolebogile Halenyane

Nondumiso Nokukhanya Ntombela
Megan Jean Runds

In Information Technology:
Silence Chomunorwa
Irikidzai Zorodzai Muchaneta

In Molecular & Cell Biology:
*Cornelius Jansen Gunter

In Physical Oceanography:
Kirodh Boodhraj
*Matthew David Carr
Estee Ann Vermeulen

In Zoology:
*Tanya Scott

DEGREE OF DOCTOR
OF PHILOSOPHY

In Archaeology:
Pauline Chiripanhora
Thesis Title: *Archaeological collections
as a prime research asset: objects and
great Zimbabwe's past*

Pauline Chiripanhora completed her BA (Hons) and MA qualifications at the University of Zimbabwe, and began full-time study towards her PhD in 2013.

Pauline Chiripanhora's thesis engages with legacy collections from Great Zimbabwe that were collected at different points over the course of the 20th century. Despite their importance, the collections lay 'forgotten' in various institutions. And yet, they hold important information essential for understanding various aspects of life during Great Zimbabwe's occupation. Pauline Chiripanhora's thesis studies the objects from different contexts and makes far reaching conclusions relating to class relations and the distribution of activity areas at the site. In particular, it became clear that upper classes and lower classes used identical objects and were similarly involved in identical craft production. These findings are important for future work dedicated towards exploring class relations at Great Zimbabwe and related sites.

Supervisor: Professor S Chirikure
(Archaeology)

In Biological Sciences:
Emma Lockerbie
Thesis Title: *A decision tree framework
for assessing status of exploited
marine ecosystems under changing
environmental conditions*

Emma Lockerbie holds an MSc in Marine Biology from the University of Southampton, UK. She joined UCT in 2014 for her PhD.

Emma Lockerbie's thesis focuses on the development of a decision tree framework for the analysis of ecosystem health for a variety of marine ecosystems around the world. She has made use of a suite of indicators developed in the IndiSeas project to analyse trends in ecosystem components, with the addition of environmental indicators to assess the impacts of climate variability. A score-based approach was developed with the addition of weighting systems to account for the impacts of fishing pressure and the environment on measured ecological indicators. A key feature of the decision tree development was the inclusion of knowledge from local ecosystem experts to fully interpret observed indicator trends. By fine-tuning to account for ecosystem-specific characteristics and exploitation histories, the framework was successfully applied to the Southern Benguela, South Catalan Sea and North Sea ecosystems.

Supervisor: A/Professor L Shannon
(Biological Sciences)
Co-supervisor: A/Professor A Jarre
(Biological Sciences)

In Chemistry:
John Ojwang Okombo
Thesis Title: *Physicochemical,
biological and β -Haematin inhibiting
activity of Pyrido-Dibenzimidazoles,
Pyrido[1,2-a]Benzimidazoles and their
derivatives*

John Okombo completed his BSc(Hons) degree at Maseno University, Kenya in 2007. After a spell at the Kenya Medical Research Institute profiling antimalarial resistance in coastal Kenya, he received a Wellcome Trust Masters fellowship in 2011, obtaining a MSc at the London School of Hygiene and Tropical Medicine in 2013.

John Okombo's thesis reports on the physico-chemical, pharmacological and biological investigation of two series of experimental antimalarials and their metabolites. Solubility properties, toxicities, metabolic stability, antimalarial and antischistosomal activities of the pyrido-dibemequines and pyridobenzimidazoles were profiled. Pyrido-dibemequines were found to be metabolically unstable, but produced active metabolites with improved pharmacological properties, while pyridobenzimidazoles were metabolically stable and active against both malaria and Schistosoma parasites. The work also provides important new insights into the mechanism of action of these compounds.

Supervisor: Professor TJ Egan
(Chemistry)
Co-supervisor: Professor K Chibale
(Chemistry)

Antonina Anyango Wasuna
Thesis Title: *Repositioning fusidic acid for tuberculosis: semi-synthesis of analogues and impact of mycobacterial biotransformation on antibiotic activity*

Antonina Wasuna obtained her BPharm qualification from the University of Nairobi in 2008. She joined the Department of Chemistry at UCT in 2011 for her MSc, which was subsequently upgraded to a PhD in 2012.

Antonina Wasuna's thesis focuses on fusidic acid, a natural product antibiotic with modest activity against Mycobacterium tuberculosis (Mtb), the causative agent of tuberculosis (TB). She investigated synthetic derivatives of fusidic acid with respect to the desired efficacy and safety properties in the potential treatment of TB. In this investigation, she used a combination of chemistry and biology techniques. She also evaluated some of the synthetic derivatives for efficacy in a laboratory model of Mtb infection that attempts to simulate host infection conditions and investigated the role of Mtb in their metabolism. Her latter studies revealed that the synthetic derivatives are metabolised by Mtb to achieve higher concentrations of fusidic acid. She

finally used a combination of genetic and biochemical approaches to elucidate how fusidic acid kills Mtb. In summary, Antonina Wasuna's work demonstrates the potential to exploit fusidic acid as a template in the discovery of novel anti-TB agents.

Supervisor: Professor K Chibale
(Chemistry)
Co-supervisor: A/Professor DF Warner
(Pathology)

Savannah Clare Zacharias
Thesis Title: *Carboxylate metallo-gels - an adventure in supramolecular chemistry*

Savannah Zacharias completed her BSc (Biochemistry and Chemistry), BSc(Hons) and MSc (Cum Laude) in Chemistry at the University of KwaZulu-Natal. Her MSc project involved the design and synthesis of novel Schiff base complexes of copper and rhenium for use as anti-cancer agents. She joined the Centre for Supramolecular Chemistry at UCT in 2013 to pursue a PhD.

Savannah Zacharias' thesis addresses the mechanism of formation of metal-containing supramolecular gels and the response to external stimuli of selected gels. The design of novel gels is becoming a greater possibility with the expanding catalogue of gels being reported and explored. Systematic studies were performed to determine the influence of the various gel components on gel formation: the counter anion in the metal salt, solvent, temperature, as well as the nature of the carboxylate organic ligand. The creation of xerogels, by drying, allowed for better characterisation. Three novel crystal structures were elucidated when crystals were obtained during gel formation experiments. The second part of the thesis explored the response of a series of iron(III)-carboxylate gels to external stimuli such as organic dyes, small molecules, and gases. It was demonstrated that selected gels could absorb organic dyes and gases such as carbon dioxide, and water vapour as these materials have a large surface area. This study demonstrates that multiple

factors influence gel formation and with a better understanding of these, materials may be designed for specific applications.

Supervisor: Professor S Bourne
(Chemistry)
Co-supervisor: Dr G Ramon
(Chemistry)

In Computer Science:
Sabre Zenzo Didi
Thesis Title: *Neuro-evolution behavior transfer for collective behavior tasks*

Sabre Didi holds a BSc(Hons) and MSc degree in Computer Science from the National University of Science and Technology, Zimbabwe. He joined the department of Computer Science at UCT for his PhD studies in 2013. Sabre Didi's thesis evaluates a range of evolutionary search methods to ascertain the essential features that augment behaviour transfer to improve evolution of behaviours in increasingly complex multi-agent tasks. Results analysis indicates superiority of a hybrid of objective-based search and behaviour diversity maintenance evolutionary controller design coupled with policy transfer. This he attributes largely to the effective balance between exploration and exploitation of behaviour search space during evolution.

Supervisor: Dr GS Nitschke
(Computer Science)

Nathan Geffen
Thesis Title: *Algorithms for efficiently and effectively matching agents in microsimulations of sexually transmitted infections*

Nathan Geffen holds BSc and MSc degrees in Computer Science from UCT. From 2000 to 2013 he campaigned for HIV treatment and prevention with the Treatment Action Campaign. He enrolled for a PhD in 2012. He edits GroundUp and has also taught Computer Science courses at UCT.

Nathan Geffen's thesis examines how mathematical models have been used to understand the HIV

epidemic and inform policy debates. He presents and analyses several algorithms for speeding up and improving the quality of simulations of the HIV epidemic and other sexually transmitted infections (STIs). Mathematical models of STIs often need to account for the diversity, or heterogeneity, of human sexual behaviour. Microsimulations are a type of model well-suited to accounting for heterogeneity. A key aspect of a microsimulation is the algorithm it uses to match agents, which represent people, into sexual relationships. There is a trade-off between speed and accurately replicating the distribution of relationships in the population being studied. The algorithms Nathan Geffen has developed, such as Cluster Shuffle Pair-Matching, offer a practical compromise between speed and accuracy.

Supervisor: A/Professor M Kuttel
(Computer Science)

Maletsabisa Molapo
Thesis Title: *Designing with community health workers: feedback-integrated multimedia learning for rural community health*

Maletsabisa Molapo holds a BEng in Computer Systems and Networks from the National University of Lesotho (NUL) and an MSc in Computer Science from UCT. Before her PhD, she worked as a lecturer at NUL. She is now a Research Scientist at IBM Research.

Maletsabisa Molapo's thesis focuses on designing mobile technologies that support digital health education in rural areas of Lesotho. Her work contributes to the growing practice of co-design in low-income contexts and with participants of limited digital experience. She demonstrates the efficacy of incorporating an effective, mobile-based feedback mechanism to strengthen digital health-education efforts in rural areas. Her longitudinal, immersed study of over 30 months provides empirical evidence of offline video-consumption trends in digital health-education deployments. She also presents an empirical analysis of the increasing use of smartphones in rural

villages, especially among elderly, low-literate, and non-English-speaking users. Finally, she proposes new guidelines and the implications for designing relevant and usable smartphones for the rural African market.

Supervisor: Dr M Densmore
(Computer Science)

Aderonke Busayo Sakpere
Thesis Title: *Usability heuristics for fast crime data anonymization in resource-constrained contexts*

Aderonke Sakpere obtained her bachelor's and master's degrees in Computer Science from the University of Ilorin (Nigeria). She is currently a Lecturer at the University of Ibadan (Nigeria).

Aderonke Sakpere's thesis studies the problem of sharing sensitive data in a way that protects users' information from exposure to unauthorised persons. In particular, she considers the case of an electronic crime-reporting system, where the objective is to provide users with assurances of privacy in order to encourage crime reporting. While several such systems exist in the developed world, none is tailored for developing countries. Aderonke Sakpere's goal was to find methods of designing such a system to operate well, even when no powerful computers exist to handle the calculations necessary to provide user privacy. To this end, she created a prototype crime reporting system "CryHelp" which she tested with the support of UCT's campus security team. "Cryhelp" is supported by algorithms based on user privacy preferences, and real-time data analysis. In doing this, she was able to demonstrate that existing privacy-preserving algorithms can be redesigned to guarantee user anonymity, even under limited computing conditions. This implies that such a system can help law-enforcement authorities, and encourage active crime reporting in developing countries, resulting in safer communities.

Supervisor: Professor J Gain
(Computer Science)
Co-supervisor: Dr AVDM Kayem
(Computer Science)

In Environmental & Geographical Science:

Michael Lennox Kent
Thesis Title: *A mode-based metric for evaluating global climate models*

Michael Kent has BSc, BSc(Hons) and MSc degrees from UCT. His doctoral research evolved from earlier work on the use of Independent Component Analysis in assessing climate processes. Michael Kent's thesis seeks to address the difficult problem of how to evaluate coupled ocean-atmosphere global climate model's simulation skill of the fundamental modes of the global climate system. This challenging problem underpins the efficacy of using multiple models to develop projections of climate change. The thesis implements a novel use of Independent Component Analysis to create a metric of a model's simulation skill of core global modes of variability, and uses this to construct an approach to provide relative rankings of one model compared to another. This facilitates the evaluation of models and aids the selection of models to best use in developing messages of climate change.

Supervisor: Professor B Hewitson
(Environmental & Geographical Science)
Co-supervisor: Dr C Jack
(Environmental & Geographical Science)

In Molecular and Cell Biology:

*Freedom Tshabuse
Thesis Title: *Characterization of membrane lipids and. Changes therein during desiccation and rehydration of the resurrection plant Xerophyta humilis (Bak) Dur and Schinz*

Freedom Tshabuse completed his MSc qualification at UWC, and began full-time study towards his PhD in 2012.

Freedom Tshabuse's thesis focuses on establishing the nature of, and changes in, membrane lipids composition in *X. humilis* during the dehydration and rehydration treatments, with hopes of engineering drought-tolerant plants, able to withstand the dry climatic conditions of South Africa. He employed LC-MS/MS in the MRM mode to study changes in membrane lipids composition. He showed

that the glycerophospholipids profiles from total leaves and roots lipid extracts showed an increased representation of unsaturated molecular species during dehydration, with a decrease in saturated and mono-saturated molecular species. Rehydration was associated with the opposite trend in both leaves and roots. These results led him to suggest that unsaturated fatty acids may aid in maintaining membrane integrity during dehydration. These findings are very important, since membrane breakages are the known cause of plant death during water deprivation, therefore, this can be the first step to consider when engineering drought-tolerant crops.

Supervisor: Professor JM Farrant (Molecular and Cell Biology)

Co-supervisors: Dr SM Rafudeen (Molecular and Cell Biology); Dr E Ruelland (UPMC)

In Ocean & Atmosphere Science:

Obadias Jacinto Cossa

Thesis Title: *Modelling the oceanic circulation in the Delagoa Bight*

Obadias Cossa received a BSc in Meteorology at Eduardo Mondlane University, Mozambique, followed by a MSc degree in Oceanography at the University of Lisbon, Portugal. Before coming to UCT, he worked at the Hydrographic Institute of Mozambique.

Obadias Cossa's thesis is devoted to the study of the circulation in the Delagoa Bight region, located in the south west of the Mozambique Channel. Interaction between eddies propagating from the north of the Channel and the Bight leads to complex dynamics. A modelling approach is used to understand the dynamics of the Bight due to the lack of available observations. The thesis investigates the mechanisms which lead to a lee eddy sometimes being present in the Bight, the relationships between the circulation in the Bight and that in the neighbouring Mozambique Channel, and the properties of the various eddies found in the Bight and the southern Mozambique Channel.

Supervisor: Professor C Reason (Oceanography)

Co-supervisors: Dr S Pous; Dr P Penven (Oceanography)

*Elisabeth Jane Lain

Thesis Title: *The fundamental role of spectral scattering in the ocean colour Phytoplankton Functional Type signal*

Elisabeth Lain began her academic career with a BA in English Literature and Philosophy (UCT, 1999). She later returned to UCT to complete a BSc (Environmental Sciences) and then Honours and Master's degrees in Oceanography (2008). She started her PhD in 2012.

Elisabeth Lain's research addresses the question of whether changes in the dominant size of phytoplankton cells in a population produce an optical signal large enough to be detected from radiometric satellite data, or "ocean colour". Phytoplankton size is an important feature, as it is closely related to cells' biogeochemical function (their role in nutrient, mineral and carbon cycles), and is therefore integral to ecological and climatological modelling. This work validates and applies the EAP model of Equivalent Algal Populations, the first of its kind explicitly linking biophysical characteristics of phytoplankton populations with their optical properties. The model is coupled to the HydroLight scalar hyperspectral radiative transfer solution, providing a new capability and the opportunity for quantitatively understanding the variability revealed in the water-leaving signal as observed by satellites.

Supervisor: Professor C Reason (Oceanography)

Co-supervisor: Dr S Bernard (Oceanography, CSIR)

Neil Christopher Malan

Thesis Title: *The impact of Agulhas current dynamics on shelf waters: a modelling approach*

Neil Malan graduated with a BSc(Hons) in Ocean and Atmosphere Science in 2011 and then with a MSc in Ocean and Climate Dynamics in 2013, both from UCT. While based at UCT and SAEON for his PhD he undertook several exchange visits to collaborate with ocean modelling groups at institutes in

Germany and Norway.

Neil Malan's thesis focuses on the interaction of the Agulhas Current with the shelf using two ocean models. Large meander events are shown to influence the shelf waters, resulting in the formation of upwelling fronts at the shelf edge. Decadal changes in temperature since 1948 are considered with regime shifts in shelf temperatures found in 1966 and 1996. The latter shift is known to have had an impact on fish populations. These regime changes are related to changes in the wind fields along the south coast of South Africa which result from large scale circulation variability, including the Southern Annular Mode. Finally, the role of small sub-mesoscale eddies is examined using surface drifters. It is estimated that these small structures could be responsible for 10% of the supply of warm Agulhas Current waters to the Benguela system.

Supervisor: Professor C Reason (Oceanography)

Co-supervisors: Dr B Backeberg (CSIR); Dr J Hermes (SAEON); Dr A Samuelsen (NERSC)

In Zoology:

Colin Harold Walter Jackson

Thesis title: *The moult and migration strategies of Lesser Sand Plover, Greater Sand Plover and Terek Sandpiper*

Colin Jackson studied Environmental Science at Southampton University, UK, and worked at the National Museums of Kenya, Nairobi, before founding and directing a conservation organisation, A Rocha Kenya, in 1999.

Long-distance migrant shorebirds that breed in Asia and spend the northern winter on the shores of the Indian Ocean are poorly known. Effective conservation of these species requires understanding of their annual lifecycles. Colin Jackson's thesis fills many knowledge gaps for populations of three shorebird species from Kenya, India, north-western and south-eastern Australia. Using the Underhill-Zucchini moult model for data analysis, he explores the strategies used by each species at each locality to undertake

one of the three essential components of the annual lifecycle, moult (the other two being breeding and migration). Moult is the annual, energetically-expensive process of replacing feathers, the primary means of locomotion, and is necessary for a bird to survive. He further synthesises results of moult studies for 21 migrant shorebirds, throwing light onto the overall strategies used by this fascinating group of birds to fit moult into their annual cycle.

Supervisor: Emeritus Professor LG Underhill (Biological Sciences)

Co-supervisor: Dr CDT Minton (Australasian Wader Study Group)

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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.

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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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- 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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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!*
