



Graduation Programme

The Future. Reimagined.



**Welcome to the
Graduation Ceremony
of the
University of Johannesburg
16 May 2019**

**Welkom by die
Gradeplegtigheid
van die
Universiteit van Johannesburg
16 Mei 2019**

**Le a Amogelwa
Moletlong wa Dikapešo wa
Yunibesithi ya Johannesburg
16 Mopitlo 2019**

**Niyamukelwa
eMcimbini wokweThweswa kweZiqu
weNyuvesi yaseJohannesburg
16 kuNhlaba 2019**

UNIVERSITY OF JOHANNESBURG

CHANCELLOR

Prof NS Ndebele
BA (Lesotho), MA (Cambridge UK), PhD (Denver USA)

SENIOR OFFICE-BEARERS OF THE UNIVERSITY

VICE-CHANCELLOR AND PRINCIPAL

Prof T Marwala
BS Eng (Case Western Reserve USA), MEng (UP), PhD (Cambridge UK)

DEPUTY VICE-CHANCELLOR ACADEMIC

Prof A Parekh
BA, BA Hons, MA (UDW), MA (Kansas USA), DPhil (UDW)

DEPUTY VICE-CHANCELLOR: RESEARCH AND INTERNATIONALISATION

Prof S Sinha
BEng, MEng, PhD (UP)

REGISTRAR

Prof IC Burger
BA, HEd, BA Hons, MA, PhD (RAU)

CHIEF FINANCIAL OFFICER

Ms N Mamorare
BCom (Rhodes), BCom Hons (UKZN), CA (SA)

CHIEF PEOPLE OFFICER

Ms KC Mketi
BA (Bophut), BA Hons (RAU), MBL (Unisa)

CHIEF OPERATING OFFICER

Prof A Swart
NDip, NHDip (TWR), BEd, MEd (RAU), DTech (TWR)

GENERAL COUNSEL

Prof PH O'Brien
BCom, LLB, LLM, LLD (RAU)

SENIOR EXECUTIVE DIRECTOR IN THE VICE-CHANCELLOR'S OFFICE

Dr N Vukuza
BA (Fort Hare), BA Hons (Rhodes), DTE (UNISA), MA (Wits), PhD (Stellenbosch)

EXECUTIVE DEANS

COLLEGE OF BUSINESS AND ECONOMICS

Prof D van Lill
BSc, BSc Hons, MSc, PhD (US)

FACULTY OF ART, DESIGN AND ARCHITECTURE

Prof F Freschi
BAFA (Wits), BA Hons (UCT), PhD (Wits)

FACULTY OF EDUCATION

Prof SJ Gravett
BA, HEd (PU for CHE), BEd, MEd, DEd (RAU)

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof DJ Mashao
BSc Eng (UCT), MSc Eng (UCT), MSc AM (Brown, USA), PhD (Brown, USA)

FACULTY OF HEALTH SCIENCES

Prof S Khan
BSc, BSc Hons, MSc, PhD (UWC)

FACULTY OF HUMANITIES

Prof AB Broadbent
BA, BA Hons, MPhil, PhD (Cambridge UK)

FACULTY OF LAW

Prof LG Mpedi
B Juris, LLB (Vista), LLM (RAU), LLD (UJ)

FACULTY OF SCIENCE

Prof D Meyer
BSc, BSc Hons, MSc (RAU), PhD (California USA)

MEMBERS OF COUNCIL

CHAIRPERSON

Mr MS Teke

DEPUTY CHAIRPERSON

Dr Y Ndema

MEMBERS

Prof H Abrahamse
Mr FM Baleni
Ms S Dlamini
Ms K Gugushe
Prof D Hildebrandt
Ms X Kakana
Mr G Khosa
Ms B Madikizela
Mr M Mahlasela
Prof T Marwala
Mr T Mati
Ms Z Matlala
Ms BJ Memela-Khambula
Prof A Parekh
Dr WP Rowland
Prof A Strydom
Dr M Tom

Programme

Thursday, 16 May 2019 at 17:00

To ensure good order during the ceremony all those present are requested to leave the Auditorium only after the ceremony has been concluded.

The academic procession enters the Auditorium and the members of the procession take their seats on the stage.

The choir sings Gaudeamus Igitur (or a CD is played) while those present remain standing.

The Chancellor constitutes the congregation.

Choir.

Welcome.

The relevant Executive Dean presents the candidates to the Chancellor for the conferment of a degree/diploma/certificate.

Singing of the National Anthem.

The Chancellor dissolves the congregation.

The academic procession leaves the Auditorium while those present remain standing.

Lenaneo

Labone, 16 Mopitlo 2019 ka 17:00

Go kgonthiša gore dilo di sepela ka tshwanelo nakong ya moletlo, bohle bao ba tlilego moletlong ba kgopelwa go tšwa ka Holong ya kopano feela ka morago ga ge moletlo o phethilwe.

Sehlopha sa dirutegi se tsena ka Holong ya kopano gomme maloko a sehlopha se a dula ditulong tša ona sefaleng.

Khwaere e opela Gaudeamus Igitur (goba CD e tlo bapalwa) mola bao ba lego gona ba tšwela pele go ema.

Mokhanseliri o kopanya phuthego.

Khwaere.

Dikamogelo.

Hlogophethiši ya maleba ya lefapha e hlagiša dialoga go Mokhanseliri gore di newe tikrii/diploma/setifikeiti.

Go opelwa ga Koša ya Setšhaba.

Mokhanseliri o phatlalatša phuthego.

Sehlopha sa dirutegi se tšwa ka Holong ya kopano mola bao ba lego gona ba tšwela pele go ema.

Program

Donderdag, 16 Mei 2019 om 17:00

Ter wille van die ordelike verloop van die plegtigheid
word alle aanwesiges vriendelik versoek
om die Ouditorium nie voor die einde van die plegtigheid te verlaat nie.

Die akademiese prosessie kom die Ouditorium binne en neem op die verhoog plaas.
Die koor sing Gaudeamus Igitur (of 'n CD word gespeel) terwyl die aanwesiges staan.

Die Kanselier stel die kongregasie saam.

Koor.

Verwelkoming.

Die betrokke uitvoerende dekaan stel die kandidate aan die Kanselier voor vir die
toekenning van 'n graad/diploma/sertifikaat.

Sing van die volkslied.

Die Kanselier ontbind die kongregasie.

Terwyl die aanwesiges bly staan, verlaat die akademiese prosessie die Ouditorium.

Uhlelo

uLwesine, 16 kuNhlaba 2019 ngele-17:00

Ukuze kuqinisekwe ukuthi konke kuhamba kahle ngesikhathi somcimbi, bonke abakhona
bacelwa ukuba baphume eHholweni kuphela lapho umcimbi usuphothuliwe.

Udwendwe lezifundiswa lungena ehholweni bese amalungu odwendwe ahlala phansi
esiteji.

Ikwaya icula i-Gaudeamus Igitur (noma kudlalwa iCD) ngalenkathi labo abakhona
besamile.

UShansela uhlanganisa ibandla.

Ikwaya.

Ukwamukelwa.

Izinhloko Eziyiziphathimandla ezithintekayo zethula abafundi kuShansela weNyuvesi
ukuze bathole idigiri/idiploma/isitifiketi.

Kukulwa iHubo Lesizwe.

Gaudeamus Igitur

Gaudeamus igitur,
Juvenes dum sumus;
Post iucundum iuventutem,
Post molestam senectutem
Nos habebit humus.

Vivat academia,
Vivant professores,
Vivat membrum quodlibet,
Vivat membra quaelibet;
Semper sint in flore!

English

Let us rejoice, therefore,
While we are young.
After a pleasant youth
After a troubling old age
The earth will have us.

Long live the academy!
Long live the professors!
Long live each student;
Long live the whole fraternity;
For ever may they flourish!

Sesotho sa Leboa

Ka gona, a re thabeng,
Re sa le ba bafsa.
Ka morago ga bofsa bjo bo bose
Ka morago ga go tšofala mo go nago le
mathata
Lefase le tla ba le rena.

Phela thuto phela!
Phelang diprofesa phelang!
Phelang baithuti phelang;
Phela kagišano ka botlalo phela;
O ka re ba ka phela gabotse goyagoile!

Afrikaans

Laat ons dan vrolik wees,
Terwyl ons jonk is;
Na 'n aangename jeug.
Na 'n onaangename oudag,
Sal die aarde ons hou.

Lank lewe die universiteit,
Lank lewe die professore,
Lank lewe elke student,
Lank lewe al die studente,
Mag hulle vir ewig hul jeug behou!

Zulu

Ngakho, masithokoze
Sisebasha nje.
Emva kobumnandi bobusha
Emva kwezinkinga zobudala
Umhlaba uzosithatha.

Phambili ngemfundo!
Phambili boSolwazi!
Phambili nakuwe mfundi;
Phambili ngenhlangano yonke;
Maziqhubeke ngonaphakade!

QUALIFICATIONS

1. Diploma (Dip)

Chisinahama, Conold Thando (Business Information Technology)
Gumede, Sanele Johannes (Business Information Technology)
Kgasago, Tshepiso Simphiwe (Business Information Technology)
Khanye, Katleho Leseli (Business Information Technology)
Maphanga, Sandile Kevin (Business Information Technology)
Maruping, Zandile Boipelo (Food and Beverage Operations)
Masuku, Thato (Business Information Technology)
Mkhonto, Sthabile Nomfundo (Food and Beverage Operations)
Mogane, Mathapelo (Business Information Technology)
Mthombeni, Tirhani Jenniffer (Business Information Technology)
Nhlapho, Hlobisile Charity (Food and Beverage Operations)
Shube, Nomzamo Prudence (Business Information Technology)

2. National Diploma (NDip)

Adoons, Lindelwa (Small Business Management)
Bopape, Thabang Theo (Marketing)
Gwala, Buselaphi Xolile Mzabalazo (Marketing)
Hatlile, Teboho James (Tourism Management)
Kanyane, Kelso Prince (Small Business Management)
Kasongo, Gedeon Wembi (Management)
Kgotse, Tshegofatso Malerothodi (Hospitality Management)
Khumalo, Noluthando Ayanda Perseverance (Retail Business Management)
Kopung, Tshepiso (Small Business Management)
Kwanaite, Khutsafalo (Hospitality Management)
Lebesa, Lehlohonolo Richard (Retail Business Management)
Mahlangu, Diana (Marketing) (Marketing)
Makabi, Rayssa (Management)
Mamabolo, Karabo Caleb (Management)
Mapekula, Inga Sikelela (Small Business Management)
Mashamba, Mosoloa Throcia (Marketing)
Mhlawuli, Ziyanda (Small Business Management)
Mkhacane, Dzunani (Small Business Management)
Monamodi, Tsholofelo Keitumetse (Management)
Mota, Sinikiwe (Hospitality Management)
Muswobi, Thendo Maxwell (Small Business Management)

Ncube, Mercy Nozuko (Marketing)
Ngubeni, Sabelo Patric (Hospitality Management)
Nhlabathi, Kevin (Retail Business Management)
Nkosi, Lungile Phumzile (Small Business Management)
Rikhotso, Nomonde Amanda (Marketing)
Sere, Ofentse Abraham (Small Business Management)
Sheik Ameer, Suhayl (Management)
Sukazi, Lindokuhle Precious (Management)
Thabethe, Qakazile (Marketing)
Zide, Busisiwe Tania (Marketing)

3. Baccalaureus Technologiae (BTech)

Choma, Nkululeko (Business Administration)
Ho, Alastair (Hospitality Management)
Magadani, Mulalo Faith (Marketing)
Magongoma, Portia (Business Administration)
Mahlaba, Mokete (Business Administration)
Malatji, Sethakgale Kholofelo (Business Administration)
Mayila, Itumeleng Caroline (Hospitality Management)
Mkhwanazi, Nosipho Hlengiwe (Business Administration)
Mlambo, Dudu Angel (Business Administration)
Mohapi, Tshepiso (Marketing)
Morifi, Lebogang Lesley (Business Administration)
Motloutsi, Mokgadi Celia (Marketing)
Msizazwe, Langelethu Wesley (Business Administration)
Mugwili, Mmbengeni Elsie (Business Administration)
Ndlovu, Sandile Given (Business Administration)
Ngubane, Nonsikelelo (Business Administration)
Nobangane, Noluthando Chantel (Business Administration)
Seitlhamo, Karabo Gaositwe (Hospitality Management)
Sibiya, Tebogo Bridget (Marketing)
Tshelani, Mpho Godfrey (Business Administration)
Zondi, Silindile Portia (Hospitality Management)

4. Bachelor of Arts (BA)

Maubane, Koketso (Tourism Development)
Motumisi, Lerato Rahabah (Information Management)

5. Bachelor of Commerce (BCom)

Lekgwara, Piletsi Cloude (Information Management)
Makobe, Leshole Thapelo (Information Management)

Marakalala, Mpho Maggie (Information Management)
Ndlovu, Maxin (Information Management)
Nkadimeng, Tshepang Judith (Information Management)
Nkosi, Siyabonga Manelisi Andile (Information Management)
Ramano, Kamogelo Bridget (Information Management)
Ramosana, Katleho (Information Management)
Ramulifho, Lufuno Vhutali (Information Management)
Sejeng, Katlego Leonard (Information Management)
Solomons, Jarryd Pio (Information Management)
Vilakazi, Kingmore Morena (Information Management)

6. Bachelor of Arts Honours (BA Hons)

Munzhedzi, Dzanga Martin (Tourism Development)
Panana, Katlego Nhlamulo (Tourism Development)

7. Bachelor of Commerce Honours (BCom Hons)

Mlangeni, Nhlanhla Koos (Marketing Management)

8. Masters

Collins, Keagan James Edward (Tourism and Hospitality Management) **(with distinction)**

Dissertation: Neo-localism, craft beer and tourism in South Africa
Supervisor: Prof CM Rogerson

Ogochukwu, Deborah Onyinyechi (Tourism and Hospitality Management)

Dissertation: Regional tourism: Nigerian tourists to South Africa

Supervisor: Prof TM Tichaawa

Co-Supervisor: Prof CM Rogerson

Runhare, Nelly Vimbai (Tourism and Hospitality Management)

Dissertation: The influence of Zimbabwe's policy initiatives on community participation in tourism development

Supervisor: Prof TM Tichaawa

9. National Diploma (N Dip)

Bidi, Cebo (Biotechnology)

Cebekhulu, Lwazi Sanele Marvin (Biotechnology)

Kongolo Kalemba, Mavie Rose (Biotechnology)

Linyana, Gcobisa Prudence (Biotechnology)

Mahlangu, Gugu Promise (Food Technology)
Masina, Zwelakhe Thembisa (Analytical Chemistry)
Masutha, Tshepo Confident (Analytical Chemistry)
Modibedi, Koketso Dorothy (Food Technology)
Mogale, Motsakwe Clementinah (Analytical Chemistry)
Molotsi, Lerato (Biotechnology)
Nangolo, Twelyeta Vistolina Talesindano (Biotechnology)
Ngoma, Jabulani John (Food Technology)
Nkonyane, Nompumelelo (Analytical Chemistry)
Ntambua, Joel Mukendi (Biotechnology) **(with distinction)**
Nyete Makaba, Hyrielle Bramina (Food Technology)
Phiri, Lindokuhle Donaven (Biotechnology)
Ramabulana, Mashudu (Biotechnology)
Ramapuputla, Kagiso Alpheus (Analytical Chemistry)
Ramncwana, Siyasanga (Biotechnology)
Raphala, Mankwe Hendrick (Analytical Chemistry)
Tseladimitlwa, Ofentse Jacob (Analytical Chemistry)
Zama, Lethokuhle (Biotechnology) **(with distinction)**

10. Bachelor of Technology (B Tech)

Kabongo, Jisca Kangola (Food Technology)
Makola, Ronny Mokiry (Biotechnology)
Mculu, Noxolo Kamogelo Pierre Lucia (Food Technology)
Mogodi, Karabo Seshele (Food Technology)

11. Bachelor of Science (BSc)

Dlamini, Zamokuhle Memory (Botany and Biochemistry)
Dube, Andries (Botany and Zoology)
Ganchi, Moosa Zunaid (Human Physiology and Psychology)
Goosen, Reynard (Sport Science)
Kgasi, Rebaona Botlhale (Biochemistry and Psychology)
Kgwedi, Mianca Tswelelo (Environmental Management and Geology)
Khosa, Ester (Biochemistry and Psychology)
Kubayi, Vanessa Risuna (Geography and Geology)
Lekalakala, Nompumelelo Cleopatra (Environmental Management and Geology)
Mabasa, Dzuneko Kindness (Human Physiology and Psychology)
Mahlaba, Malefu Princess (Botany and Chemistry)
Manana, Manqoba Jinny (Environmental Management and Geology)
Masemola, Dinake Belinda (Zoology and Human Physiology)
Matsepane, Modibe Petrus (Environmental Management and Geology)
Mdlalose, Sipehele Otto (Botany and Biochemistry)
Mokhali, Bofihla Desmond (Environmental Management and Geology)
More, Makgotso (Human Physiology and Psychology)

Morwane, Omphile Kehumile Given (Botany and Biochemistry)
Ngubeni, Bandile (Human Physiology and Psychology)
Ngwenya, Precious Kwanele (Biochemistry and Psychology)
Rambau, Chelsy Khodani (Geography and Geology)
Ramunangi, Vhengani (Human Physiology and Psychology)
Thanjekwayo, Vumile Nolwazi (Human Physiology and Psychology)
Timakwe, Siphokazi Aminah (Botany and Zoology)
Van Rensburg, Philip Jeffrey (Human Physiology and Psychology)
Zwane, Nompumelelo Sihlobo (Human Physiology and Biochemistry)

12. Bachelor of Science Honours (BSc Hons)

Baepi, Marvin Motseyathebe (Energy Studies)
Kotyi, Siyavuya (Energy Studies)
Makgopela, Osiname Ratime (Geology)
Mataha, Lawrence (Botany)
Mbenya, Avile (Geography)
Mdletshe, Sakhile Boy (Energy Studies) **(with distinction)**
Mohlele, Frank (Geography)
Mothibatsela, Kegomodicoe Maggie (Energy Studies)
Sediketso, Basetsana Bertha (Geography)

13. Master of Technology (MTech)

Morare, Rebotiloe Fridah (Biotechnology)
Dissertation: Screening of anti-microbial activity of secondary metabolites extracted from *Crinum macowanii* and its associated bacterial endophytes.
Supervisor: Dr MH Serepa-Dlamini

Nobela, Ofentse (Biotechnology)
Dissertation: Phytochemical characterization of an under-utilized green leafy vegetable, *Sonchus oleraceus* with the aid of liquid chromatography ion trap time of flight mass spectrometry (LC-ITTOF-MS).
Supervisor: Dr NE Madala (University of Venda)
Co-supervisor: Prof PB Njobeh

Okechukwu, Viola Onyinnye (Biotechnology)
Dissertation: Detection of volatile organic compounds as possible Biomarkers in cervical cancer using carbon nanocomposites gas sensor.
Supervisor: Dr M Mamo
Co-supervisor: Dr V Mavumengwana (Stellenbosch University)

14. Master of Science (MSc)

Andrews, Gail May (Aquatic Health)

Minor Dissertation: A review of two rapid habitat assessments to evaluate surface aquatic impacts from bulk water pipelines (BWP) in different streams in Gauteng.

Supervisor: Dr A Nel

Co-supervisor: Mr L Hoy (Rand Water Environmental Management Services)

Asomah Osei, Frederick (Environmental Management)

Minor Dissertation: An evaluation of fire prevention environmental management mechanisms used at filling stations in the Brong-Ahafo Region in Ghana.

Supervisor: Prof IT Rampedi

Co-supervisor: Ms T Mugwena

Boshoff, Pedro (Geology)

Dissertation: Case studies of speleogenesis in the Cradle of Humankind UNESCO heritage site and the West Rand Expanse, South Africa: tectonic controls and their Paleoproterozoic component

Supervisor: Prof JD Kramers

Co-supervisor: Dr H van Niekerk

Connell, Liam James (Zoology) **(with distinction)**

Dissertation: A biomarker assessment of *Clarias gariepinus* from the Vaal River system, South Africa.

Supervisor: Prof R Greenfield

Hlungwani, Ripfalo Peace (Geology)

Dissertation: The geochemistry of the Molopo Farms Complex.

Supervisor: Prof MA Elburg

Jooste, Candice Megan (Zoology) **(with distinction)**

Dissertation: Genetic connectivity in the world's largest freshwater copepod.

Supervisor: Prof PR Teske

Co-supervisor: Dr R Wasserman (Botswana International University of Science and Technology)

Kambunga, Selma Ndapandula (Geology) **(with distinction)**

Dissertation: Geophagic termite mound soils and their potential health impact on pregnant women in Onangama village, Northern Namibia

Supervisor: Prof H Mouri

Co-supervisor: Prof C Candeias (University of Porto, Portugal)

Co-supervisor: Mr I Hasheela (Geological Survey of Namibia)

Khoza, Minenhle Felicity Gloria (Food Technology)

Dissertation: The effectiveness of natural Antioxidants from Marula and Orange peels in stabilizing emulsions (sunflower based salad dressing).

Supervisor: Dr E Kayitesi

Khoza, Tebogo Magudu (Biodiversity and Conservation)

Dissertation: A comparative study on the diversity and activity of bats inhabiting the peri-urban and urban areas in the West Rand, Gauteng.

Supervisor: Dr JF Durand

Co-supervisor: Prof A Avenant-Oldewage

Lloyd, Gabbi Crystal (Zoology)

Dissertation: Physiological responses and bioaccumulation of metals in *Clarias gariepinus* from the Nyl River system, Limpopo Province, South Africa.

Supervisor: Prof R Greenfield

Co-supervisor: Dr MLL Mokae

Lowe, Robyn Angela (Environmental Management)

Minor Dissertation: An overview of the exotic pet trade in the Gauteng Province - Case study: small exotic mammals and reptiles.

Supervisor: Dr CJ Kelso

Mahlangu, Sipiwe Godfrey (Biotechnology) (with distinction)

Dissertation: The antimicrobial activity of secondary metabolites produced by bacterial endophytes isolated from *Pellaea calomelanos*.

Supervisor: Dr MH Serepa-Dlamini

Makumbe, Musiwa (Aquatic Health)

Minor Dissertation: An assessment of the water quality of the Klip River, Gauteng Province, South Africa.

Supervisor: Dr JC van Dyk

Mashamba, Mmbulungeni Lucas (Geology)

Dissertation: Geochemical studies of the Brugspruit Stream water and acid mine drainage (AMD) contaminant sources in the Brugspruit catchment area, Emalahleni (Witbank) Coalfield, Mpumalanga

Supervisor: Prof JD Kramers

Co-supervisor: Dr H Coetzee (Council of Geoscience)

Molefe, Mahlogonolo (Zoology)

Dissertation: Metal accumulation in *Labeo capensis* (Orange river mudfish) and physical water quality variables in correlation to parasite occurrence at six sites along the Vaal River.

Supervisor: Prof A Avenant-Oldewage

Co-supervisor: Dr B Gilbert

Monsanto, Daniela Marques (Zoology) (with distinction)

Dissertation: Unravelling the fine-scale spatial genetic structure of *Cryptopygus antarcticus travei* on sub-Antarctic Marion Island.

Supervisor: Prof B Jansen van Vuuren

Co-supervisor: Prof PR Teske

Oliver, Jody Carynn (Zoology) (with distinction)

Dissertation: Pathways of larval transport: the roles of alongshore and cross shore transport.

Supervisor: Prof PR Teske

Co-supervisor: Dr F Porri (South African Institute of Aquatic Biodiversity)

Sanyaolu, Olufunke Mary (Geology) (with distinction)

Dissertation: Iodine and the prevalence of endemic goiter in Nigeria: A case study from Badagry Lagos, South West Nigeria.

Supervisor: Prof H Mouri

Co-supervisor: Prof AM Odukoya (University of Lagos, Nigeria)

Co-supervisor: Prof O Selinus (Linneaus University, Sweden)

Sekonyela, Kelebone (Environmental Management)

Minor Dissertation: Rural livelihoods in Tsekong village Eastern Cape: Vulnerability to Environmental Change.

Supervisor: Dr CJ Kelso

Seroka, Khotso Lebohang (Zoology)

Dissertation: The effect of heavy metals associated with Acid Mine Drainage (AMD) on select aquatic insect species in the Tweelopiespruit, Rietspruit, and Bloubankspruit (TRB) River system.

Supervisor: Prof JF Durand

Co-supervisor: Prof A Avenant-Oldewage

Tapfuma, Kudzanai Ian (Biotechnology) (with distinction)

Dissertation: Isolation and identification of fungal endophytes from *Datura stramonium* and in vitro cytotoxic evaluation of their secondary metabolites on UMG87 glioblastoma cells.

Supervisor: Dr V Mavumengwana (Stellenbosch University)

Co-supervisor: Prof E Green

Tshilongo, Ntsundeni (Environmental Management)

Minor Dissertation: An assessment of the conceptualisation and implementation of the ISO 14001 Environmental Management System at Johannesburg Water (SOC) LTD.

Supervisor: Prof IT Rampedi

15. Philosophiae Doctor (PhD)

Azong, Matilda Ngwe (Environmental Management)

Thesis: Gender and Vulnerability to Climate Change: The case of the Bamenda Highlands Region of Cameroon.

Supervisor: Dr CJ Kelso

Co-supervisor: Prof K Naidoo (Faculty of Humanities)

Igeh, Chwe Patience (Zoology)

Thesis: Aspects of the biology of *Cichlidogyrus philander* collected from *Pseudocrenilabrus philander* from the Padda Dam Gauteng, South Africa.

Supervisor: Prof A Avenant-Oldewage

Kambule, Njabulo Eldridge (Energy Studies)

Thesis: An evaluation of acceptance and efficacy of prepaid electricity meters in low vs. high income households in Soweto.

Supervisor: Prof N Nwulu (Faculty of Engineering and the Built Environment)

Co-supervisor: Dr K Yessoufou

Co-supervisor: Prof C Mbohwa (Faculty of Engineering and the Built Environment)

Nicolis, Vittorio Filippo (Botany)

Thesis: A novel integrated domain carrying nucleotide-binding leucine-rich repeat gene, *Adr1*, plays a role in the wheat-Russian wheat aphid interaction.

Supervisor: Dr E Venter

Pahad, Govan Timol (Zoology)

Thesis: Phylogeography and ecological niche modelling: Reciprocal enlightenment.

Supervisor: Prof B Jansen van Vuuren

Volschenk, Claire Michelle (Zoology)

Thesis: Toxicity testing for the establishment of LC₅₀ and EC₅₀ values for technical grade DDT, in conjunction with biomarkers and bioaccumulation in *Synodontis zambezensis*.

Supervisor: Prof R Greenfield

Co-supervisor: Prof JHJ van Vuren



Azong, Matilda Ngwe (PhD)

Matilda Azong was born in Victoria-Limbe, Cameroon. Matilda obtained her first degree, a BSc from the University of Buea, Cameroon in 1997. She went on to obtain a Masters in GIS and Remote Sensing, from the International Institute of Geo-information Science and Earth Observation in the Netherlands. Ms Azong's interest in both gender issues and the environment led her to pursue research at the confluence of these topics. This took her back to the country of her birth, to a location where natural resources and livelihoods are under pressure. She is married with three children.

The thesis of Ms Azong assessed the experienced and potential impacts of climate change on female farmers in the Bamenda Highlands region of the Cameroon. Available meteorological data was analysed to identify trends in climatic conditions and their effects on the timing of the onset of the rainy season, which has direct implications for agriculture. Life history interviews were used to investigate the different roles of female and male farmers in the villages of Kom and Oku and indicated that vulnerability is a social process that develops over time. Few studies have investigated the potential impacts of climate change on the Cameroon and none have integrated gender theory to interpret how women are affected differently to men. Women, although predominantly involved in food crop production, do not own or inherit land, have limited access to credit and education and experience direct risk to their livelihoods. The study led to a conceptual framework for analysing gender and vulnerability and showed the importance of mainstreaming gender into climate change adaptation policy. Aspects of this research have been published in a journal article, a book chapter and conference proceedings.

Supervisor: Dr CJ Kelso

Co-supervisor: Prof K Naidoo (Faculty of Humanities)



Igeh, Chwe Patience (PhD)

Chwe Patience Igeh was born in Jos (Plateau State), Nigeria. She completed her secondary school education at Government College Bokkos, Nigeria in 1992 and obtained a BSc degree in Zoology from the University of Jos, in 1999. In 2006 she obtained an MSc degree in Applied Entomology and Parasitology also from the University of Jos. She enrolled for a PhD degree at the University of Johannesburg in August 2015 and is currently employed as a lecturer at the Plateau State University Bokkos, Nigeria. Ms Igeh is married and has three children.

Aspects of the biology of *Cichlidogyrus philander*, a monogenean fish parasite was studied. The first molecular characterisation of the parasite and description of the internal sclerotized structures lead to re-description of the species. A study of pathological effects of the parasite showed that it destroyed superficial layers of epithelium when the anchors and hamuli penetrates during attachment to the gills of the host. It furthermore, removes and ingests tissue in the surrounding area during feeding and thereby interferes with gas exchange in the host. In large numbers, it will subsequently lead to the death of the host. In this study, the parasites' potential as an environmental bioindicator was described for the first time. This study provides useful information to create awareness of the parasites particularly when the aesthetically pleasing host is exported as part of the pet trade. The thesis resulted in one international publication, two submitted manuscripts and presentations at two national and one international conferences.

Supervisor: Prof A Avenant-Oldewage



Kambule, Njabulo Eldridge (PhD)

Njabulo Kambule was born in Johannesburg. He matriculated at Immaculata Secondary School in 2005. He obtained a BA degree majoring in Geography and Development Studies (2009), a BSc Honours degree in Geography (2010), and an MSc degree in Environmental Management (2015), all from the University of Johannesburg. Mr Kambule enrolled for a PhD degree in Energy studies at the University of Johannesburg in 2016 and is currently employed as a lecturer in the Department of Geography, Environmental Management and Energy Studies at the same University.

Over the past two decades, low-income households in Soweto have persistently rejected electricity prepaid meters, prompting the need to explore the trend in energy consumption since the introduction of prepaid meters and build an integrative model that can be used to inform policy developments towards increased prepaid meter acceptance. Firstly, the thesis shows that, while electricity consumption has decreased by 48% since the introduction of the technology, energy poverty has, unfortunately, also increased concomitantly by 60%. Interestingly, using a structural equation approach, the thesis further reveals that gender, age, education level and household size are linked to resident's perceptions and behaviour towards prepaid meters. Finally, policy implications of these findings are proposed to inform future interventions in the sector in Soweto and potentially across low-income communities in South Africa. Three papers have been published in international peer-reviewed journals, and two more papers and a book chapter are in preparation.

Supervisor: Prof N Nwulu (Faculty of Engineering and the Built Environment)

Co-supervisor: Dr K Yessoufou

Co-supervisor: Prof C Mbohwa (Faculty of Engineering and the Built Environment)



Nicolis, Vittorio Filippo (PhD)

Vittorio Nicolis was born in Johannesburg, South Africa. He matriculated at Crawford College Sandton in 2005 after which he joined the University of Johannesburg and obtained a BSc degree (*cum laude*) majoring in Botany and Zoology, followed by an honours degree (*cum laude*) in Botany in 2009. In 2013 he obtained an MSc degree (*cum laude*) in Botany and continued with a PhD degree at the University of Johannesburg in 2014. He is currently a postdoctoral fellow in the Department of Genetics at the University of Stellenbosch.

The Russian wheat aphid is an economically important pest of wheat in South Africa. In this doctoral study, the first support for the integrated decoy hypothesis underlying plant-pest interactions is presented. Here, the role of *Adnr1*, a nucleotide-binding leucine-rich repeat protein containing two integrated domains, was validated in the wheat – Russian wheat aphid interaction using virus-induced gene silencing. This silencing confirmed the importance of *Adnr1* in the resistance response. Additionally, this study identified a novel microRNA that targets and cleaves *Adnr1*. This is the first evidence that microRNA regulation plays a role in the wheat-Russian wheat aphid interaction. These data lay the foundation for extensive further studies into plant-pest interactions using this model system. The thesis has resulted in presentations at three international conferences, an international peer-reviewed publication as well as being awarded the front cover of an international peer-reviewed journal.

Supervisor: Dr E Venter



Pahad, Govan Timol (PhD)

Govan Pahad was born in Prague. After attending Paddington Green Primary School in London, he moved to Johannesburg where he matriculated from Sacred Heart College. He obtained a BSc in Zoology and Ecology, followed by an Honours and MSc in Zoology from Wits University. He also obtained a Postgraduate Certificate in Education from Wits University. He is currently employed as a lecturer at the University of Johannesburg.

Biodiversity is under threat from a range of factors such as climate change, pollution and habitat destruction. Multi-disciplinary approaches are paramount in providing accurate information about the state of biodiversity. In his thesis, Mr Pahad combined information on the spatial distribution of genetic variation (phylogeography) with ecological niche modelling. This enabled the environmental factors limiting the ranges of species and unique genetic lineages to be identified. Niche models were then projected to examine the effect of past and future climate change on distributions. Specifically, he showed that genetic clades within a forest shrew are adapted to different rainfall zones, with glacial cycling assisting in their diversification, and that climate change will reduce the habitat available for the species in the future. He also showed how local adaptation is assisting invasive European starlings spread across South Africa and how the distribution of rocky outcrops has contributed to genetic diversity in a rock sengi. His results hold implications for protected area conservation, not only now, but also for future conservation efforts.

Supervisor: Prof B Jansen van Vuuren



Volschenk, Claire Michelle (PhD)

Claire Michelle Volschenk (née Edwards) was born in Johannesburg. She matriculated from Parktown High School for Girls in 2006 and completed her BSc degree majoring in Zoology and Human Physiology in 2011. After completing her BSc Honours in 2012 and Master's degree in Zoology in 2014 (Cum Laude) at the University of Johannesburg, Claire enrolled for a PhD in Zoology in 2015, focusing on aquatic toxicology. During her MSc and PhD studies, she completed internships of three months each, at Hokkaido University, Sapporo, Japan.

Claire's research focused on the effects of 4'4' Dichlorodiphenyltrichloroethane (DDT) at both sub-cellular and cellular levels within *Synodontis zambezensis*. The importance of this species as a source of food for local communities in many African countries means the fishes bioaccumulation potential of DDT is extremely important to understand. During the study, *Synodontis zambezensis* were successfully bred for experimental purposes. Juveniles were used to determine the LC₅₀ concentrations and after a series of DDT exposures at to differing concentrations, biological marker concentrations of effect and exposure were determined to assess the physiological stress experienced by the fish under controlled conditions. The bioaccumulation potential of this species was also determined. Results from this study can be used in setting safe guideline values for DDT in the aquatic environment, safeguarding this species as a viable food resource for human consumption. The research has resulted in two international peer reviewed publications and been presented at one international and two national conferences.

Supervisor: Prof R Greenfield

Co-supervisor: Prof JHJ van Vuren



See the back cover for the words of the National Anthem.



A word of thanks to the UJ Alumni Association for sponsoring the flower arrangements at the University of Johannesburg graduation ceremonies.

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