

**Welcome to the  
Graduation Ceremony  
of the  
University of Johannesburg  
4 June 2018**

**Welkom by die  
Gradeplegtigheid  
van die  
Universiteit van Johannesburg  
4 Junie 2018**

**Le a Amogelwa  
Moletlong wa Dikapešo wa  
Yunibesithi ya Johannesburg  
4 Phupu 2018**

**Niyamukelwa  
eMcimbini wokweThweswa kweZiqu  
weNyuvesi yaseJohannesburg  
4 kuNhlangulana 2018**

# **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)

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Prof S Sinha  
BEng, MEng, PhD (UP)

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

### **CHIEF FINANCIAL OFFICER**

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

### **DEPUTY VICE-CHANCELLOR: EMPLOYEES AND STUDENT AFFAIRS**

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  
BA (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 C Mbohwa (Acting)  
BSc Eng (Hons), OMMS, PhD (TMIT Japan)

### **FACULTY OF HEALTH SCIENCES**

Prof S Nalla (Acting)  
BSc (Wits), BSc Hons (Wits), Certificate ELLD (UJ), PhD (Wits)

### **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  
Prof C Landsberg  
Dr J Manyaka  
Prof T Marwala  
Ms Z Matlala  
Ms BJ Memela-Khambula  
Mr F Netshavha  
Prof A Parekh  
Mr C Phetla  
Dr WP Rowland  
Mr K Thomas  
Dr M Tom

# **Programme**

**Monday, 4 June 2018 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.

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# **Lenaneo**

**Mošupologo, 4 Phupu 2018 ka 17:00**

Go kgonthiša gore dilo di sepela ka tshwanelo nakong ya moletlo, bohle bao ba tilego 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**

**Maandag, 4 Junie 2018 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.

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# **Uhlelo**

**uMsombuluko, 4 kuNhlanguvana 2018 ngele-17:00**

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

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.

Kuculwa 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. Bachelor of Science (BSc)

**Austin**, Lucinda (Zoology and Human Physiology)  
**Bhomela**, Mzimasi (Applied Mathematics and Mathematics)  
**Chauke**, Feliz Seventeen (Information Technology)  
**Chauke**, Vuako (Human Physiology and Psychology)  
**Coetzee**, Morné Bongani (Computer Science and Informatics)  
**Dippenaar**, Dawid Johannes (Computer Science and Informatics)  
**Dlamini**, Nkululeko Mfundo (Information Technology)  
**Dliwayo**, Crystalline Nomasizo (Mathematics and Computer Science)  
**Firman**, Marc Aston (Information Technology)  
**Gama**, Bongani Hopewell (Computer Science and Informatics)  
**Gololo**, Lethabo (Zoology and Human Physiology)  
**Govender**, Lance (Computer Science and Informatics)  
**Haq**, Fidaur Rasool (Information Technology)  
**Joseph**, Tasneem Rasool (Mathematics and Economics with financial orientation)  
**Juba**, Precious Phungi (Geography and Geology)  
**Kekane**, Charity Mpho (Applied Mathematics and Mathematics)  
**Kgapane**, Katlego Vincent (Mathematics and Economics with financial orientation)  
**Lebelo**, Thabo (Computer Science and Informatics)  
**Lebepe**, Mmafase (Geography and Geology)  
**Lekgau**, Thapelo Pelebese (Computer Science and Informatics)  
**Litshokhotha**, Rudzani (Applied Mathematics and Mathematics)  
**Louw**, Ilonka (Botany and Geography)  
**Mabaso**, Millicentia Philasande Nompumelelo (Geography and Geology)  
**Makgareetsa**, Precious (Mathematics and Informatics)  
**Makhubela**, Witness Kevin (Computer Science and Informatics)  
**Makungo**, Rudzani Lesly (Mathematics and Economics with financial orientation)  
**Mametja**, Dominic (Environmental Management and Geology)  
**Mangwane**, Bongani Wellington (Applied Mathematics and Mathematics)  
**Manze**, Aphiwe (Computer Science and Informatics)  
**Maphanga**, Bongwiwe Promise (Human Physiology and Psychology)  
**Maphanga**, Khanyisile Khumo (Computer Science and Informatics)  
**Maphasha**, Mfulufheli Josephine (Zoology and Human Physiology)  
**Mashao**, Lesego Grace (Zoology and Human Physiology)  
**Mashila**, Tsakani (Geography and Geology)  
**Mathekga**, Onthatile Mildred (Applied Mathematics and Mathematics)  
**Mncwabe**, Khwezi Sibonginhlanhla Celiwe (Environmental Management and Geology)  
**Moila**, Amogelang (Geography and Geology)  
**Mokone**, Freddy Antonio (Environmental Management and Geology)  
**Molisho**, Katanga Emmanuel (Geography and Geology)



**Moraka**, Katlego Dorah (Environmental Management and Geology)  
**Morake**, Reitumetse (Environmental Management and Geology)  
**Motla**, Pontsho (Applied Mathematics and Mathematical Statistics)  
**Moya**, Sifiso Luxolo Prince (Computer Science and Informatics)  
**Mulaudzi**, Phumudzo Percy (Geography and Geology)  
**Muzorori**, Timothy (Computer Science and Informatics)  
**Naidu**, Karena (Mathematics and Economics with financial orientation)  
**Ndima**, Siyabonga Welcome (Botany and Biochemistry)  
**Ngwenya**, Nondumiso Bongwiwe (Human Physiology and Psychology)  
**Nkosi**, Siyabonga (Computer Science and Informatics)  
**Nthebe**, Mxolisi Amos (Zoology and Human Physiology)  
**Nxumalo**, Hosana Magnificent (Applied Mathematics and Mathematics)  
**Nzenze**, Serge Angioni (Computer Science and Informatics)  
**Phetla**, Mogaramedi Thabo (Zoology and Environmental Management)  
**Rader**, Nicholas Fabio (Computer Science and Informatics)  
**Rama**, Deepa (Human Physiology and Psychology)  
**Ramapuputla**, Debra Makoma (Applied Mathematics and Mathematics)  
**Ramurunzi**, Vhonani (Zoology and Environmental Management)  
**Rapule**, Aaron (Mathematics and Informatics)  
**Sebiloane**, Sbusiso (Geography and Geology)  
**Shangase**, Bongumusa (Computer Science and Informatics)  
**Sibisi**, Promise Khulekani (Mathematics and Computer Science)  
**Sirwali**, Mulavhelesi Joseph (Computer Science and Informatics)  
**Sithole**, Mbuso (Computer Science and Informatics)  
**Sithole**, Xivono Vision (Environmental Management and Geology)  
**Sithomo**, Simphiwe Siphesihle Halalisani (Applied Mathematics and Mathematics)  
**Skosana**, Nelisiwe Pretty (Mathematics and Computer Science)  
**Tshuma**, Jellat (Applied Mathematics and Mathematics)  
**Zandamela**, Alex Emmanuel (Information Technology)

## **2. Bachelor of Science Honours (BSc Hons)**

**Askes**, Miles (Mathematics)  
**Blanchard**, Diahann Danielle (Mathematics)  
**Du Preez**, Andrea (Mathematics)  
**Khamoji**, Alexandra Lydia (Mathematics)  
**Kwinana**, Reginald Nkululeko (Applied Mathematics)  
**Kyabuntu**, Joxe Kambila (Mathematics)  
**Lala**, Hawita (Computer Science)  
**Modise**, Keamogecoe Rebaona (Applied Mathematics)  
**Molefe**, Thoriso Lesedi (Mathematics)  
**Moloantoa**, Tsholofelo Patience (Mathematics)  
**Mukwevho**, Ofhani (Applied Mathematics) **(with distinction)**  
**Nxumalo**, Nkosinathi (Applied Mathematics)  
**Oosthuizen**, Jacques Marius (Information Technology)  
**Phiri**, Seza (Mathematics)  
**Salehjee**, Safwan (Information Technology)  
**Sibiya**, Hlophane Abram (Applied Mathematics)

### 3. Master of Arts (MA)

**Khotoo, Anisa** (Environmental Management)

**Minor Dissertation:** Electricity saving Measures and power outage mitigation measures used in households in Johannesburg, South Africa.

**Supervisor:** Mrs DC Schoeman

### 4. Master of Science (MSc)

**Coetzee, Helene Johanna** (Zoology) **(with distinction)**

**Dissertation:** The effect of organochlorine pesticides aldrin and methoxychlor on the health status of *Clarias gariepinus* by means of a histology-based approach.

**Supervisor:** Prof GM Wagenaar

**Cuthbertson, Shayna-Ann Mary** (Environmental Management) **(with distinction)**

**Minor Dissertation:** The greening of buildings in South Africa: The case of green roofs.

**Supervisor:** Prof J Rogerson

**Dube, Gloria Zamadube** (Botany)

**Dissertation:** Resistance gene analogue regulation in the wheat-Russian wheat.

**Supervisor:** Dr E Venter

**Fosso Tchatat, Priscille** (Applied Mathematics)

**Dissertation:** The dynamics of the double pendulum.

**Supervisor:** Prof CM Villet

**Gwebu, Duduzile** (Environmental Management)

**Minor Dissertation:** Evaluation the quality of environmental management plans associated with environmental impact assessments: A case study on mining projects in South Africa

**Supervisor:** Dr IT Rampedi

**Juga, Maureen Lenna** (Mathematics)

**Dissertation:** Non-cancellation group computations.

**Supervisor:** Dr JC Mba

**Co-supervisor:** Prof A Fransman (Stellenbosch University)

**Kamuto, Morgan Bruce** (Computer Science)

**Dissertation:** Factors inhibiting the adoption of DevOps in large Organizations.

**Supervisor:** Prof J Langerman

**Lang, Dane Hendri** (Computer Science)

**Dissertation:** Investigating the use of the South African National ID Card for the Electronic Transaction Processing.

**Supervisor:** Prof SH von Solms

**Mabaso**, Thembeka (Environmental Management)

**Minor Dissertation:** Investigating the potential of generating electrical energy from digester carbon waste sources at ERWAT waste water treatment facilities in the Ekurhuleni district municipality.

**Supervisor:** Mrs LA Modley

**Co-supervisor:** Dr IT Rampedi

**Co-supervisor:** Mr J Topkin (ERWAT)

**Makhubele**, Muriel Gilani (Environmental Management)

**Minor Dissertation:** Evaluation of the Waste Recycling Practices of Primary School Learners in Mamelodi, Gauteng Province.

**Supervisor:** Dr IT Rampedi

**Moeletsi**, Refilwe Suzan (Environmental Management)

**Minor Dissertation:** Remote sensing of land cover change within granite quarries.

**Supervisor:** Dr SG Tesfamichael

**Mojela**, Mokgaetji Lydia (Botany)

**Dissertation:** The diversity of the genus *Fusarium* in soil from the Willem Pretorius Nature Reserve, South Africa.

**Supervisor:** Dr E Venter

**Co-supervisor:** Dr A Jacobs (Agricultural Research Council)

**Co-supervisor:** Dr B Summerell (Botanic Gardens and Centennial Parklands, Australia)

**Ndenda**, Sheltah (Environmental Management) **(with distinction)**

**Minor Dissertation:** An update of the predisposition of alien mammals to invasion in South Africa.

**Supervisor:** Dr K Yessoufou

**Papo**, Lesiba Abram (Botany)

**Dissertation:** Resistance gene analogue regulation in the wheat-Russian wheat.

**Supervisor:** Prof A Moteetee

**Co-supervisor:** Prof S van Vuuren (University of the Witwatersrand)

**Russell**, David John (Computer Science)

**Dissertation:** A multi-agent framework that facilitates decoupled agent functioning.

**Supervisor:** Prof EM Ehlers

**Toure**, Cheick Kader (Mathematics) **(with distinction)**

**Dissertation:** Applications of analytic function theory to abstract Banach algebras.

**Supervisor:** Prof R Brits

**Co-supervisor:** Dr F Schulz

**Van der Westhuizen**, Egbert Johannes (Information Technology)

**Dissertation:** A wearable device-based framework for determining player effectiveness on the football pitch.

**Supervisor:** Dr D van der Haar

**5. Doctor of Commerce (D Com)**

**Jaquire, Victor John** (Informatics)

**Thesis:** A Framework for a Cyber Counterintelligence Maturity Model.

**Supervisor:** Prof B von Solms

**6. Philosophiae Doctor (PhD)**

**Das Neves, Jamie-Lee** (Zoology)

**Thesis:** The potential effects of methoxychlor and aldrin at environmentally relevant concentrations on the haematological parameters and reproductive health of *Clarias gariepinus* (Burchell, 1822).

**Supervisor:** Prof GM Wagenaar

**Co-supervisor:** Prof IEJ Barnhoorn (University of Venda)

**De Bruin, Rossouw** (Informatics)

**Thesis:** A Maturity Framework for Cybersecurity Governance.

**Supervisor:** Prof B von Solms

**Dos Santos, Quinton Marco** (Zoology)

**Thesis:** African *Paradiplozoon* Akhmerov, 1974 species: A case study of their taxonomy, morphology and phylogeny.

**Supervisor:** Prof A Avenant-Oldewage

**Co-supervisor:** Prof B Jansen van Vuuren

**Lawrence, Faith** (Geography)

**Thesis:** Local Economic Development Agencies in South Africa: Evolution, Organisation and Progress.

**Supervisor:** Prof CM Rogerson

**Steyn, Lindi** (Biodiversity and Conservation)

**Thesis:** The effect of DDT on the histology, reproductive success and overall health of House Sparrows in designated areas.

**Supervisor:** Prof JN Maina

**Co-supervisor:** Prof H Bouwman (North-West University)



**Jaquire, Victor John (DCom)**

Victor John Jaquire after completing an Honours degree in Management from Henley University he obtained an MCom Degree in Informatics at the University of Johannesburg in 2015. He then enrolled for a DCom in Informatics at the same institution in 2016. For the past 20 years, Victor worked within the field of Cyber and Information Security in both the Government and the Private sector, focusing on strategy, performance management and operations. He has been within the employment of the State Security Agency since 2007.

In his thesis, the candidate investigated the hypothesis that in Cyberspace, defensive only measures are no longer an efficient approach to protect a company's data and information. This investigation led to the development of a Framework for a Cyber Counterintelligence Maturity Model. The aim of this Framework is to assist organisations in transitioning the defensive-only approach when securing cyberspace, to a more balanced approach. The Framework can be considered as original as it is the first of its kind to assist organisations (both Government and Private Sector) in establishing a customised Cyber Counterintelligence approach for protection in Cyberspace. One of the international examiners, and a leading expert in the field, states in his report "This thesis, and the associated published papers, presents a masterful, important and timely contribution to cyber defence activities in general but particularly for such small nations and their enterprises, both public and private". Four research papers were published and presented at leading international conferences.

**Supervisor:** Prof B von Solms



## **Das Neves, Jamie-Lee (PhD)**

Jamie-Lee Das Neves was born in Johannesburg in 1987 and matriculated from Assumption Convent in 2004. She enrolled at the University of Johannesburg in 2006 and obtained a BSc degree with majors in Human Physiology and Zoology, BSc Honours degree in Zoology and in 2014 obtained an MSc in Zoology (*cum laude*). Mrs Das Neves registered for a PhD degree in Zoology at the University of Johannesburg in 2014. She is currently appointed as an Assistant Lecturer in the Department of Zoology.

Mrs Das Neves' research focused on the effect of two pesticides aldrin and mehtoxychlor, which occurred in the Albasini Dam, Limpopo Province. As the use of aldrin was withdrawn in South Africa in 1992 and methoxychlor banned in Europe and the USA, their presence is a cause for concern. Both aldrin and methoxychlor are considered to be endocrine disrupting chemicals which could affect the reproductive system of animals. In this study, the sharptooth catfish, *Clarias gariepinus* was used as a bio-indicator to assess the effect of these two pesticides on the general health and reproductive potential under controlled laboratory conditions. The protocol applied during this study is intended to be standardised for use in biomonitoring of environmental pollutants and fish reproduction and included the assessment of the gonadosomatic index, maturity stages of the testes, gonadal histology and sperm quality analysis by means of computer assisted sperm analysis. The candidate's work was presented at national and international conferences and the results have been published in an international peer-reviewed journal.

**Supervisor:** Prof GM Wagenaar

**Co-supervisor:** Prof IEJ Barnhoorn (University of Venda)



## **De Bruin, Rossouw (PhD)**

Rossouw de Bruin enrolled at the University of Johannesburg in 2007 and completed his BSc in Information Technology (IT) in 2010. He proceeded to obtain his BSc Honours in IT (cum laude) in 2012. He then enrolled for his Master's degree in IT in 2013, and 13 months later, he obtained this degree cum laude. In 2015, he registered for his PhD in IT which he completed at the end of 2017. Presently he is the Head of the School for Business Innovation and Technology at AFDA, the School for the Creative Arts.

For any institution today, Cyber Security and Cyber Security Governance are aspects of the highest importance. In his thesis, the candidate investigated ways in which organizations can assess, manage and mature their Cyber Security Governance status. For this purpose he developed a Cyber Security Governance Maturity Framework. This Framework provides a basis for companies to determine their present Cyber Security Governance status, and then progressively improve and mature this status as specified by the Framework. This Framework can be considered novel in the field as no such comprehensive maturity framework presently exists to provide a focused, yet comprehensive and adaptable way of assessing and improving a company's Cyber Security Governance status. Three research papers were presented at leading international and national subject conferences and all papers were published.

**Supervisor:** Prof B von Solms



## **Dos Santos, Quinton Marco (PhD)**

Quinton Marco Dos Santos matriculated from Hoërskool President in 2007 with 7 distinctions, ranking in the Top 10 matriculants in Gauteng. He obtained a BSc degree majoring in Zoology, Biochemistry and Chemistry from the University of Johannesburg in 2010, followed by a BSc Honours degree in Zoology in 2011. Continuing at UJ, he received an MSc degree in Zoology (*cum laude*) in 2013 and started his PhD degree later that year. He is currently a Post-doctoral fellow in the Faculty of Science at UJ. He received the 2017 Angela Davies-Russell Award from PARSA for the best publication in Parasitology by a postgraduate student.

Mr Dos Santos' thesis focussed on the taxonomy and phylogeny of African species of the Diplozoidae, a unique family of freshwater fish parasites. This gave rise to the description of a new species from the Olifants River in the Kruger National Park; *Paradiplozoon krugerense*. The candidate produced a re-description of all diplozoid species occurring in Africa. He also developed a technique to expose internal hard structures of these parasites, allowing for their three-dimensional study, revolutionising diplozoid taxonomy. This technique allows for the simultaneous morphological and genetic study of diplozoids, and is applicable in other parasite families. Furthermore, the phylogenetics of the Diplozoidae and their hosts were scrutinised, incorporating new genetic markers to describe the evolutionary history of these animals. The candidate's thesis has produced two international peer-reviewed publications, with another in review and three more in preparation. The work has also been presented at two national and four international conferences.

**Supervisor:** Prof A Avenant-Oldewage

**Co-supervisor:** Prof B Jansen van Vuuren





## **Lawrence, Faith (PhD)**

Faith Lawrence graduated with a Bachelor of Social Science degree (1992), and a Postgraduate Diploma in Organisation and Management (1993) from the University of Cape Town, South Africa. After working in the field of enterprise promotion she received a British Chevening Scholarship to read for a Master of Science Degree in Development Management at the London School of Economics and Political Science in 2000/2001. Thereafter she worked for the German Development Cooperation and the CSIR on Integrated Development Planning, Planning Support Systems and Local Economic Development. She is currently employed as Country Coordinator for the GIZ International Water Stewardship Programme in South Africa. She enrolled for a PhD at the University of Johannesburg in 2011.

Faith Lawrence's PhD sought to assess the contribution of Local Economic Development Agencies (LEDAs) to territorial development in South Africa. In the global North LEDAs have provided context-specific solutions to local development challenges and contributed to the spatial restructuring of localities together with key private and public sector stakeholders. This research addresses a major gap in the context of the global South concerning the differing contexts of LEDAs, including their role within and contribution to the local development system. The PhD offers a comprehensive analysis of the evolution of LEDAs in South Africa as well as the key influences on their operational environment. It shows LEDAs have an important contribution to make to locality development albeit that this contribution is influenced by context realities. Policy recommendations are offered to deepen national understanding and responses to LEDAs. The PhD has resulted in two papers published in international journals.

**Supervisor:** Prof CM Rogerson



**Steyn, Lindi (PhD)**

Lindi Steyn was born in 1988 in Nylstroom, Limpopo Province. In 2010 she obtained her BSc degree in Botany and Zoology from the University of Johannesburg, followed by her BSc Honours (2011) and MSc in Biodiversity and Conservation (2014) also from the University of Johannesburg. Ms. Steyn enrolled for a PhD degree in Biodiversity and Conservation at the University of Johannesburg in 2014. Being passionate about the protection of the natural environment, she is currently pursuing a career in nature conservation.

The candidate's research focussed on the impact of the insecticide DDT and its related chemicals (which are used in the control of the mosquito which transmits malaria) on the well-being of the House Sparrows in the Limpopo- and Free State Provinces of South Africa. The species has a global distribution and lives in close proximity to humans, making it a good bio-indicator of the possible injurious effects of application of exogenous chemical agents on an environment. Ms. Steyn's work showed the concentrations of DDT and its allied chemicals used for malaria control in the study areas have not directly harmed the House Sparrows during the time spraying has been continuing. An important finding, it calls for further studies on granivorous bird in order to determine the cause of the reported world-wide decline of the numbers of House Sparrows. The candidate's work has resulted in two publications in international peer-reviewed journals. She has also presented her work at one international conference and three national conferences.

**Supervisor:** Prof JN Maina

**Co-supervisor:** Prof H Bouwman (North-West University)





## **Special Awards**



### **Faculty of Science**

#### **Faculty prize for best Hons student – 2017**

**Fourie**, Margaux

BSc Hons in Information Technology (**with distinction**)

#### **S<sup>2</sup>A<sup>3</sup> medal for original research at Master's level 2017**

**Hasse**, Melanie Alexandra

MSc in Mathematics (**with distinction**)

#### **Chancellor's Medal for the Most Meritorious Master's Study - 2017**

**Coetzee**, Helene Johanna

MSc in Zoology (**with distinction**)



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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