



# Graduation Programme

The Future. Reimagined.



UNIVERSITY  
OF  
JOHANNESBURG

## Dear UJ Graduates

Your journey to this point has been an important lesson in leadership. As I have iterated often, learning, knowledge and leadership are an essential mix and those who do not know, cannot lead. Our objective has been to empower you as leaders who are primed to face the challenges of the 4IR and explore the opportunities that this new era presents both locally and internationally. This is an exciting adventure, let me assure you that the world you are entering is abundant with opportunities, and of course, challenges.

This graduation is rather special. Though we still find ourselves in a strange setting, still fighting an invisible and relatively unknown threat and still gripped with a sense of uncertainty, there does seem to be a glimmer of hope on the horizon. This represents our first cohort of in-person graduations in two years. As we celebrate your attainment of a major milestone, we are cognisant of the sheer resilience you have demonstrated against a tumultuous context – one defined by loss, anguish and seismic shifts in the way we live and work. A graduation ceremony is an important precursor to the next chapter of your lives. It is warming to be able to celebrate this achievement today with you in person as opposed to the digital modes that have defined much of the pandemic so far.

I want to take this opportunity to remind you that as a graduate, you join a small elite in our country. This is really something to celebrate. Though the odds seemed stacked against you, you persevered and not have the potential to address some of the greatest scourges of our time. You have chosen well – a qualification from UJ will hold you in good stead!

UJ has grown into a world-class, internationally recognised university with

more than 50 000 students registered. Our global stature and academic depth and footprints are acknowledged by reputable higher education ranking systems in the world. You emerge today as the world including us in South Africa, is in a period of deep change. UJ is leading the charge in the Fourth Industrial Revolution (4IR) and creating a cohort of graduates who are agile, curious and able to be active participants in a technology driven and digital environment.

At UJ, you have encountered some of the finest South African and international academic minds. You have participated in technology-rich learning, which compares favourably to the very best in global higher education.

We welcome you as a new member of the global UJ alumni community where you will join a worldwide body of professionals, many of whom are leaders in their fields. I encourage you to join the UJ Alumni Network and become an active member of the University Convocation. By staying actively engaged with UJ, you can make a real contribution to our academic projects and to those who will study at UJ after you.

It is exciting to once again commence this time-honoured tradition. Congratulations on this inspiring achievement and the best of luck with your next chapter!



**Prof Tshilidzi Marwala**  
**Vice-Chancellor and Principal**  
**University of Johannesburg**

**Welcome to the  
Graduation Ceremony of the  
University of Johannesburg  
26 April 2022 at 12:30**

**Welkom by die  
Gradeplegtigheid van die  
Universiteit van Johannesburg  
26 April 2022 om 12:30**

**Le a Amogelwa  
Moletlong wa Dikapešo wa  
Yunibesithi ya Johannesburg  
26 Moranang 2022 ka 12:30**

**Niyamukelwa  
eMcimbini wokweThweswa kweZiqu  
weNyuvesi yaseJohannesburg  
26 kuMbaso 2022 ngele-12:30**

# **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 LG Mpedi

B Juris, LLB (Vista), LLM (RAU), LLD (UJ)

### **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 OPERATING OFFICER**

Dr M Ralephata

BSc Eng (Wits), MBA (UOVS), MSc (Heriot-Watt), DBA (Heriot-Watt)

## **SENIOR EXECUTIVE DIRECTOR**

Dr N Vukuza

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

## **GENERAL COUNSEL**

Mr D Pretorius

BCom, LLB, LLM (NWU)

## **EXECUTIVE DEANS**

### **COLLEGE OF BUSINESS AND ECONOMICS**

Prof D van Lill

BSc, BSc Hons, MSc, PhD (US)

### **FACULTY OF ART, DESIGN AND ARCHITECTURE**

Prof S Laurent

BFA (l'Ecole Boule, Paris), MFA (ENS, Paris-Saclay),  
MPhil, PhD (Université Panthéon-Sorbonne, Paris),

### **FACULTY OF EDUCATION**

Prof N Petersen

BA Ed (UNISA), BEd Hons (RAU), MEd (RAU), DEd (UJ)

## **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 K Naidoo

BA, BA Hons, MA, PhD (University of Manchester, UK)

## **FACULTY OF LAW**

Prof W Domingo

B SoSc (UCT), LLB (UWC), LLM (Columbia, USA),  
SJD (Winsconsin-Madison, USA)

## **FACULTY OF SCIENCE**

Prof D Meyer

BSc, BSc Hons, MSc (RAU), PhD (California USA)

## **DEAN**

## **JOHANNESBURG BUSINESS SCHOOL**

Prof R Carolissen

MSc (UWC), MBA (SUN), MCom (NWU), PhD (UWC)

# **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

Mr M Khoza

Ms K Khumalo

Ms B Madikizela

Mr M Mahlasela

Mr M Manana

Prof T Marwala

Prof LG Mpedi

Ms N Molope

Ms Z Mthembu

Dr WP Rowland

Prof A Strydom

Ms C Tshilande

## **PRESIDENT OF CONVOCATION**

Prof BM Diale

# 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!



# FACULTY OF SCIENCE

## QUALIFICATIONS

### 1. Diploma (Dip)

**Baloyi**, Keneilwe Boitumelo (Analytical Chemistry)  
**Birinda**, Joris Thierry (Analytical Chemistry)  
**Hlaraka**, Mokibelo Joy (Analytical Chemistry)  
**Kungwa**, Mutendu Cynthia (Analytical Chemistry)  
**Lubisi**, Sthembiso Amos (Analytical Chemistry)  
**Maboela**, Lerato Mildred (Analytical Chemistry)  
**Mahlangu**, Nkosinathi Prince (Analytical Chemistry)  
**Malanda**, Vanient Loyve (Analytical Chemistry)  
**Maleka**, Mohapi (Analytical Chemistry)  
**Malonga Ntinou**, Sephine Grace Cephoras (Analytical Chemistry)  
**Mashumu**, Phologo Sharein (Analytical Chemistry)  
**Moraba**, Daniel Phuti (Analytical Chemistry)  
**Mosidi**, Herman Thokwe (Analytical Chemistry)  
**Mutinhima**, Llynna Rufaro (Analytical Chemistry)  
**Nkosi**, Sindisiwe Judity (Analytical Chemistry)  
**Nkosi**, Thulile (Analytical Chemistry)  
**Sibozo**, Solomzi (Analytical Chemistry)  
**Tfwala**, Fanelesibonge (Analytical Chemistry)

## 2. National Diploma (N Dip)

**Dalamba**, Noluthando (Analytical Chemistry)

**Malindi**, Nhlanhla Sidney (Analytical Chemistry)

**Modipa**, Ratale Confidence (Analytical Chemistry)

**Takalo**, Emma (Analytical Chemistry)

## 3. Advanced Diploma (Adv Dip)

**Maluleke**, Nsuku Ingrid (Analytical Chemistry)

**Masango**, Michela Kulumeity (Analytical Chemistry)

**Mkhize**, Mbuyiselo Percy (Analytical Chemistry)

**Mkhonto**, Sanele Consolation (Analytical Chemistry)

**Moabelo**, Kgaugelo Faith (Analytical Chemistry)

**Mogapi**, Olebogeng Constance, (Analytical Chemistry)

**Mokhine**, Seipati Petunia (Analytical Chemistry)

**Mokopanele**, Tshegofatso (Analytical Chemistry)

**Molebatsi**, Kealeboga Precious (Analytical Chemistry)

**Molefe**, Thabiso Williams (Analytical Chemistry)

**Mphahlele**, Thabang (Analytical Chemistry)

**Nemakanga**, Ndidzulafhi (Analytical Chemistry)

**Nyakame**, Nomfundo (Analytical Chemistry)

**Ramudzwagi**, Elelwani (Analytical Chemistry)

#### 4. Bachelor of Science (BSc)

**Ali, Abdul Rehman** (Computer Science and Informatics)  
(with distinction)

**Ataro, Eyerusalem Abayneh** (Actuarial Science)

**Baig, Zeerak Mohammad** (Computer Science and Informatics) (with distinction)

**Baloyi, Amukelani Ebenezer** (Applied Mathematics and Mathematics)

**Baloyi, Fanelo** (Computer Science and Informatics)

**Bambo, Lesiba Darryll** (Mathematics and Computer Science)

**Bawa, Orapeleng Bransen** (Mathematics and Psychology)

**Bhaga, Rama Yasheel** (Computer Science and Informatics)

**Bhugwathypersad, Schane** (Actuarial Science)

**Black, Alexander** (Mathematics and Psychology)

**Bogdanov, Peter Ognianov** (Mathematics and Computer Science)

**Bornman, Hendrik Barend** (Information Technology)

**Bosch, Bradley** (Information Technology)

**Cader, Brylon Lynden James** (Computer Science and Informatics)

**Canda, Ntombizodidi Lovevonia** (Mathematical Statistics and Computer Science)

**Chambuara, Joaquim Chama** (Mathematics and Computer Science)

**Chhaya, Ibrahim Mohamed Anis** (Computer Science and Informatics)

**Chichichi**, Charity Ruvarashe (Computer Science and Informatics)

**Chimule**, Andries (Computer Science and Informatics)

**Citenga**, Citenga Yeshan (Computer Science and Informatics)

**De Lange**, Marthinus Gerhardus (Computer Science and Informatics)

**Dlamini**, Fanelesibonge Noluthando (Computer Science and Informatics)

**Du Plessis**, Claudius (Computer Science and Informatics)

**Forbes**, Tenille Joan Sarita (Computer Science and Informatics) **(with distinction)**

**Fourie**, Jarred (Information Technology)

**Funyufunyu**, Vhutshilo (Computer Science and Informatics)

**Gaboinewe**, Maele (Computer Science and Informatics)

**Gathoo**, Mohammed (Computer Science and Informatics)

**Glade**, Cheslyn (Computer Science and Informatics)

**Gumede**, Nicol Pleasure (Information Technology)

**Hage**, David (Computer Science and Informatics)

**Hammon**, Keenan James (Applied Mathematics and Mathematics)

**Hannan**, Saba (Information Technology) **(with distinction)**

**Hassett**, Louis (Information Technology) **(with distinction)**

**Hlake**, Nthabeleng (Chemistry and Mathematics)

**Hlongwane**, Harrison Amukelani (Information Technology)

**Hlungwani**, Adroit Masingita (Applied Mathematics and Mathematical Statistics)

**Hokoza**, Nyasha Nathan (Computer Science and Informatics)

**Kadiaka**, Tsholofelo (Physics and Applied Mathematics)  
**Kagdi**, Mohammedubaid Iqbalhusen (Computer Science and Informatics)  
**Kaggwa**, Lukwago Robert (Information Technology)  
**Kalombo**, Ado Kahila (Computer Science and Informatics)  
**Kathard**, Pranay (Computer Science and Informatics)  
**Kganyago**, Makwena (Computer Science and Informatics)  
**Khoza**, Gugulethu Samkeliso (Mathematics and Mathematical Statistics with Financial Orientation)  
**Khumalo**, Aisha Ayibongwe (Biochemistry and Chemistry)  
**Khumalo**, Nosipho Phumzile (Computer Science and Informatics)  
**Khwanda**, Luvhone (Actuarial Science)  
**Kubeka**, Benedict Sizwe, (Computer Science and Informatics)  
**Kula**, Xolani Given (Computer Science and Informatics)  
**Kumalo**, Emmanuel (Actuarial Science)  
**Kutumela**, Mesile Glen (Computer Science and Informatics)  
**Langa**, Siphso (Applied Mathematics and Mathematics)  
**Lekgetho**, Karabo Ginalobriggita (Mathematics and Mathematical Statistics)  
**Luckemeyer**, Carmen Ashley (Mathematics and Mathematical Statistics with Financial Orientation)  
**Luvhani**, Rinae Queen (Applied Mathematics and Computer Science)  
**Maartens**, Alexander (Mathematics and Psychology) **(with distinction)**

**Mabuza**, Zakhele Harmony (Chemistry and Physics)  
**Machaba**, Mahlodi Vanesa (Chemistry and Physics)  
**Machili**, Thabo Phinias Solomon (Applied Mathematics and Mathematics)  
**Magoloza**, Bridgette Sithembiso (Computer Science and Informatics)  
**Mahlabe**, Kelebogile Codelia (Applied Mathematics and Computer Science)  
**Mahlangu**, Thando (Biochemistry and Chemistry)  
**Mahwayi**, Nyeleti (Applied Mathematics and Mathematics)  
**Maja**, Dimpho (Computer Science and Informatics)  
**Makhaza**, Goodenough Ntethelelo (Computer Science and Informatics)  
**Makofane**, Khumo Ernest (Information Technology)  
**Malatjie**, Joseph Mabope (Computer Science and Informatics)  
**Malefofane**, Eliot (Applied Mathematics and Mathematics)  
**Malope**, Malik Mpho (Mathematics and Mathematical Statistics)  
**Malope**, Nthabiseng Pleasure (Computer Science and Informatics)  
**Mamabolo**, Felicia Moshala (Mathematical Statistics and Computer Science)  
**Mamogale**, Clementine (Computer Science and Informatics)  
**Manana**, Kgomotso (Computer Science and Informatics)  
**Maotomabe**, Koketso Samuel (Computer Science and Informatics)

**Marciano**, Victoria (Computer Science and Informatics)  
**Marimuthu**, Kalaivani (Actuarial Science)  
**Masena**, Hlonepho (Chemistry and Mathematics)  
**Mashaba**, Marcus (Computer Science and Informatics)  
**Mashiane**, Letty Boitumelo (Computer Science and Informatics)  
**Mashishi**, Lesiba Samuel (Biochemistry and Chemistry)  
**Masibigiri**, Pollen Mpho (Computer Science and Informatics)  
**Masilela**, Themba (Computer Science and Informatics)  
**Masilela**, Vusimuzi (Computer Science and Informatics)  
**Masilela**, Vincent (Chemistry and Mathematics)  
**Masingi**, Maxa (Chemistry and Mathematics)  
**Masombuka**, December (Mathematics and Mathematical Statistics)  
**Masondo**, Mncedisi Moses (Computer Science and Informatics)  
**Masuku**, Siyabonga Alex (Applied Mathematics and Computer Science)  
**Masunga**, Stephen Tumelo (Information Technology)  
**Mathebula**, Bongani Perfect (Computer Science and Informatics) **(with distinction)**  
**Mathenjwa**, Mpumelelo Joseph (Computer Science and Informatics)  
**Matlaila**, Matsobane (Applied Mathematics and Computer Science)  
**Mayer**, Brandon (Computer Science and Informatics)

**Mazamisa**, Nozipho Ziphora (Applied Mathematics and Mathematics)

**Mbaya**, Kumba Kumba Joshua (Computer Science and Informatics)

**Mdumbe**, Sifiso (Biochemistry and Chemistry)

**Mhlanga**, Chelsey (Computer Science and Informatics)

**Mogale**, Thabang (Computer Science and Informatics)

**Mogapi**, Tlotlego Innocent (Computer Science and Informatics)

**Mohashwa**, Lerato Princess (Biochemistry and Chemistry)

**Mohlakoana**, Pamela (Computer Science and Informatics)

**Mokgoamme**, Omphile Lerato (Information Technology nology)

**Mokhele**, Tshegofatso Goodwill, (Computer Science and Informatics)

**Mokhethi**, Kenneth Mahlatse (Computer Science and Informatics)

**Mokoena**, Mary (Computer Science and Informatics)

**Mokoena**, Tankiso Bernard (Computer Science and Informatics)

**Mokokwe**, Kegomoditswe (Physics and Mathematics)

**Mokone**, Kgosietsile Daniel (Computer Science and Informatics)

**Mokwena**, Hlengane Precious (Physical Sciences)

**Molwagae**, Ditebogo Donnavan (Applied Mathematics and Computer Science)

**Moosa**, Zaahid (Actuarial Science) **(with distinction)**



**Mopelo**, Loraine (Computer Science and Informatics)  
**Mosetlhe**, Tebogo Cornelius (Computer Science and Informatics)  
**Motau**, Kabelo (Information Technology)  
**Mothibi**, Matsobane (Physics and Applied Mathematics)  
**Motsa**, Phetolo (Biochemistry and Chemistry)  
**Moyo**, Kanishka (Information Technology)  
**Mphephu**, Ndivhuwo (Mathematics and Computer Science)  
**Msibi**, Nhlanhla (Computer Science and Informatics)  
**Mswane**, Thembelihle (Mathematics and Computer Science)  
**Mthethwa**, Abigail (Physical Sciences)  
**Mukwasha**, Munyaadzi (Information Technology)  
**Mulaudzi**, Mpho (Computer Science and Informatics)  
**Mundhluyi**, Edward (Physics and Applied Mathematics)  
**Munyonga**, Momentous (Actuarial Science)  
**Musalafu**, Mashudu (Computer Science and Informatics)  
**Muthanuni**, Eversmile (Computer Science and Informatics)  
**Muthelo**, Rotondwa Killton (Computer Science and Informatics)  
**Muyengwa**, Emmanuel Takunda (Information Technology)  
**Mvelase**, Mncedisi Lungani (Computer Science and Informatics)  
**Ndaba**, Ndabenhle Ndumiso (Computer Science and Informatics)  
**Ndhlozi**, Leon (Biochemistry and Chemistry)  
**Ndou**, Mulalo (Mathematics and Mathematical Statistics)

**Nekhubvi**, Mulanga Marshall (Mathematics and Computer Science)

**Ngobeni**, Percy (Computer Science and Informatics)

**Ngomane**, Mbhekeni Alfred (Computer Science and Informatics)

**Nkabinde**, Zenzele Mthokozisi (Applied Mathematics and Computer Science)

**Nkosi**, Samketi Wandile (Computer Science and Informatics)

**Nkosi**, Siyathokoza Ayandamaswazi (Computer Science and Informatics)

**Nkuna**, Surprise (Physics and Applied Mathematics)

**Nwandule**, Ripfumelo (Computer Science and Informatics)

**Nyakarombo**, Michael (Computer Science and Informatics)

**Nyambayo**, Kudzanai Annie Grace (Actuarial Science)

**Nyirenda**, Kenwood (Computer Science and Informatics)

**Parker**, Emma Lee (Actuarial Science)

**Penane**, Michelle (Biochemistry and Chemistry)

**Perumal**, Elisha Timothy (Actuarial Science) **(with distinction)**

**Phaswana**, Mutshidzi (Computer Science and Informatics)

**Phiri**, Moses (Mathematics and Mathematical Statistics)

**Phoku**, Katlego Tevin (Chemistry and Mathematics)

**Pillay**, Riya (Actuarial Science)

**Pilusa**, Samuel (Computer Science and Informatics)

**Qalinge**, Mbali (Computer Science and Informatics)

**Radzilani**, Livhuani (Computer Science and Informatics)

**Rakoma**, Mamoshabe Dorcus (Actuarial Science)

**Ramogayana**, Mothupi Mike (Computer Science and Informatics)

**Raphasha**, Murendeni (Computer Science and Informatics)

**Rasakanya**, Mahlogonolo (Information Technology)

**Rasesemola**, Ntshepheng (Computer Science and Informatics)

**Riemer**, Byron (Computer Science and Informatics) **(with distinction)**

**Rikhotso**, Kulani (Computer Science and Informatics)

**Saayman**, Nardus (Computer Science and Informatics)

**Sampson**, Sean (Computer Science and Informatics)

**Sapho**, Mihle (Computer Science and Informatics)

**Schepers**, Johann (Information Technology) **(with distinction)**

**Seedat**, Laaiqah (Information Technology) **(with distinction)**

**Sehume**, Kabelo (Biochemistry and Chemistry)

**Sekonya**, Nkata (Computer Science and Informatics)

**Semenya**, Mahlatse Prince (Mathematics and Mathematical Statistics with Financial Orientation)

**Sethosa**, Mosa Ramoshoana (Computer Science and Informatics)

**Shaku**, Arthur Sebusiso (Mathematics and Computer Science)

**Sibisi**, Hlawulani (Applied Mathematics and Computer Science)

**Silingile**, Abusisiwe (Actuarial Science)

**Sodlaka**, Sibongiseni Eric (Actuarial Science)

**Tabane**, Nthabiseng Monica Thabitha (Chemistry and Physics)

**Tambo**, Kundai Ryan, (Information Technology)

**Tshiambara**, Matamela (Mathematics and Mathematical Statistics)

**Tshibubudze**, Nzumbululo (Mathematics and Computer Science)

**Tshuze**, Nhlanhla Wiseman (Chemistry and Physics)

**Visser**, Werner Jakobus (Computer Science and Informatics)

**Walker**, Kirsty-Lee (Computer Science and Informatics) **(with distinction)**

**Yasin**, Muhammad Aman (Information Tech)

**Yasin**, Osman (Computer Science and Informatics) **(with distinction)**

**Zondi**, Siphumelele (Computer Science and Informatics)

**Zubair**, Muhammad Zukhraf (Applied Mathematics Computer Science)

## 5. Bachelor of Science Hons (BSc Hons)

**Anderson**, John Malcolm (Informatics)

**Baholo**, Basetsana (Chemistry)

**Berkowitz**, Penina Tzippora (Computer Science with Artificial Intelligence)

**Bhaiyat**, Humairaa Yacoob (Information Technology) **(with distinction)**

**Burgers, Keane Alessandro** (Information Technology) **(with distinction)**

**De Bruyn, Ruan** (Computer Science) **(with distinction)**

**Delaney, Liam Connor** (Chemistry) **(with distinction)**

**Delora, Jody Moses** (Computer Science)

**Dikotla, Pertunia Ramolwetsi** (Chemistry)

**Dlamini, Nkosiyapha Pricilia** (Chemistry)

**Erasmus, Lydia** (Computer Science)

**Falck, Tristan Michael** (Computer Science with Artificial Intelligence) **(with distinction)**

**Hadebe, Thulani** (Information Technology)

**Haffejee, Yoosuf Ahmed** (Computer Science with Cyber Security) **(with distinction)**

**Hoenselaar, Micheala Tatum** (Mathematics)

**Hoy, Matthew Edward** (Information Technology) **(with distinction)**

**Karim, Amir** (Mathematical Statistics) **(with distinction)**

**Karim, Naailah** (Information Technology) **(with distinction)**

**Khumalo, Ayanda** (Applied Mathematics)

**Kitwa, Didier Lwambiyi** (Chemistry)

**Letageng, Thabang Michael** (Computer Science)

**Lushaba, Nomfundo Ruth** (Chemistry)

**Mabila, Euphrent Mbali** (Chemistry)

**Mahase, Mpho Bushy** (Computer Science)

**Maheso, Dimakatso Jeannett** (Physics)

**Mahlangu, Phindile** (Chemistry)

**Makgafela, Dashney Maropeng** (Computer Science)

**Makola**, Tshepo, (Chemistry)  
**Malete**, Sabina Morongoa (Chemistry)  
**Maluleke**, Tsakane Patience (Chemistry)  
**Maseko**, Christeen Nomalanga (Chemistry)  
**Mashavha**, Lutendo Francis (Chemistry) **(with distinction)**  
**Mashele**, Makungu (Computer Science with Artificial Intelligence)  
**Masombuka**, Xolani Isaac, (Applied Mathematics)  
**Maswanganye**, Martin Vutomi (Information Technology)  
**Mmokwa**, Aobakwe Alloycius (Computer Science)  
**Modise**, Karabo, (Computer Science)  
**Mofokeng**, Thapelo Petrus (Computer Science)  
**Mohabir**, Ashir Harish, (Computer Science) **(with distinction)**  
**Mokhobo**, Isaac Rakobang (Applied Mathematics)  
**Moloi**, Nomsa, (Physics)  
**Moremong**, Omolemo Treasure (Chemistry)  
**Moroasi**, Moeletsi Kotse (Computer Science)  
**Moses**, Sandile Siboniso (Computer Science)  
**Motlhamme**, Omphemetse Refentse (Physics)  
**Mteki**, Mzimasi Xesibe (Applied Mathematics)  
**Mukwevho**, Fulufhelo, (Informatics)  
**Muramba**, Faith Maria (Chemistry)  
**Nagar**, Priyesh (Information Technology)  
**Naidoo**, Randell Priyesan (Information Technology) **(with distinction)**

**Ngoma**, Bahle (Computer Science)  
**Nkosi**, Precias Ntombifuthi (Applied Mathematics)  
**Ntwe**, Crozier Chukucwane (Computer Science)  
**Patel**, Shifani Mohammad Samir (Computer Science)  
**Phuti**, Francina (Physics)  
**Pienaar**, Sheridan Ann (Mathematical Statistics) (**with distinction**)  
**Radzilani**, Fulufhelo (Chemistry)  
**Riba**, Tabela Vincent Mpho (Chemistry)  
**Rorke**, Kurt (Computer Science with Cyber Security) (**with distinction**)  
**Rust**, Schalk Hendrik (Computer Science with Cyber Security) (**with distinction**)  
**Sithole**, Innocent (Applied Mathematics)  
**Siteo**, Tshepang (Physics)  
**Siwela**, Brian (Computer Science with Artificial Intelligence)  
**Tsetsewa**, Rebotile (Chemistry)  
**Tumane**, Boitshoko Pabalelo (Informatics)  
**Venter**, Kiam Ashley (Mathematical Statistics) (**with distinction**)  
**Walaza**, Thapelo Sifiso Blessing (Applied Mathematics)  
**Zimba**, Collins (Computer Science with Cyber Security)

## 6. Master of Science (MSc)

**Du Preez, Andrea** (Chemistry) (**with distinction**)

**Dissertation:** Design and optimisation of a 3D-printed flow system for semi-automated sample preparation

**Supervisor:** Prof R Meijboom

**Co-Supervisor:** Dr E Smit

**Josiah, Andrea Jess** (Chemistry)

**Dissertation:** A comparative study of Cannabidiol & Cannabidiol capped nanoparticles as potential non-melanoma skin cancer topical chemotherapies

**Supervisor:** Prof S Sinha Ray (CSIR)

**Co-Supervisor:** Dr SK Pillai (CSIR)

**Co-Supervisor:** Prof N Lall (University of Pretoria)

**Co-Supervisor:** Prof W Cordier (University of Pretoria)

**Kalumpha, Menala** (Chemistry) **Dissertation:** Synthesis and characterization of phosphino nickel(II) complexes and their silica immobilized versions for the hydrogenation of furfural to furfuryl alcohol

**Supervisor:** Dr BCE Makhubela

**Co-Supervisor:** Dr LC Matsinha



**Lebese, Qolani (Nanoscience) (with distinction)**

**Minor Dissertation:** Anti-cancer effects of bio-synthesized platinum nanoparticles against lung cancer

**Supervisor:** Prof DT Ndinteh

**Co-Supervisor:** Prof S Roux (Nelson Mandela University)

**Mabate, Tafadzwa Precious (Chemistry) (with distinction)**

**Dissertation:** Mixed-metal oxides as heterogeneous catalysts: Kinetics and Flow reactor set-up

**Supervisor:** Dr NS Bingwa

**Co-Supervisor:** Prof R Meijboom

**Magadani, Roshudufhadzwa (Nanoscience)**

**Minor Dissertation:** Biosynthesis and characterization of gold nanoparticle using phytochemical and investigating their cytotoxic effect against cancerous and non-cancerous cell lines

**Supervisor:** Prof DT Ndinteh

**Co-Supervisor:** Prof S Roux (Nelson Mandela University)

**Magagula, Thokozani Maxwell (Nanoscience) (with distinction)**

**Minor Dissertation:** Synthesis and Evaluation of Isoflavonoids Capped Platinum Nanoparticles as Potential Anti-Cancer Agents

**Supervisor:** Prof DT Ndinteh

**Co-Supervisor:** Prof S Roux (Nelson Mandela University)

**Magale, Precious (Nanoscience) (with distinction)**

**Minor Dissertation:** Investigation of anticancer and antioxidant activities of Isoflavanoids capped Gold nanoparticles

**Supervisor:** Prof DT Ndinteh

**Co-Supervisor:** Prof S Roux (Nelson Mandela University)

**Maphisa, Xolani (Physics) (with distinction)**

**Dissertation:** Numerical simulations of stress induced  $sp^2$ - $sp^3$  transitions in carbon nanotubes

**Supervisor:** Dr R Warmbier

**Morebodi, Karabo Believer (Nanoscience) (with distinction)**

**Minor Dissertation:** Synthesis

and luminescence investigations of Europium ( $Eu^{3+}$ ) and Samarium ( $Sm^{3+}$ ) doped sodium alkaline-earth sulphate phosphors ( $Na_6Mg(SO_4)_4$  and  $Na_2Ca(SO_4)_2$ ) via combustion method

**Supervisor:** Prof PL Masiteng

**Co-Supervisor:** Dr K Reddy

**Co-Supervisor:** Dr B Avula

**Motene, Khomotso Glenda (Nanoscience)**

**Minor Dissertation:** Iron oxide coated polyurethane foam as an adsorbent for the removal of inorganic pollutants from water

**Supervisor:** Dr KM Dimpe

**Motha, Nomthendeleko (Physics)**

**Dissertation:** Modelling of synchrotron emission from galaxies and diffuse radio background

**Supervisor:** Prof S Razzaque

**Ndou, Mukhethwa (Chemistry) (with distinction)**

**Dissertation:** Distribution and risk of metals in soils and pond water around abandoned Princess gold mine in Gauteng Province, South Africa

**Supervisor:** Prof PN Nomngongo

**Co-Supervisor:** Mr SV Mngadi (Umgeni Water)

**Co-Supervisor:** Mr KS Lekoadu (Council for Geoscience)

**Nzuzo, Yamkela (Chemistry) (with distinction)**

**Dissertation:** Electronic effects of inorganic perovskites in heterogeneous catalysis

**Supervisor:** Dr NS Bingwa

**Co-Supervisor:** Dr A Adeyinka

**Selepe, Cyril Tlou (Nanoscience)**

**Minor Dissertation:** Nanostructured Carbon-based materials as efficient Electrocatalysts for application in Direct Alcohol Fuel Cells

**Supervisor:** Dr NW Maxakato

**Tshinavhe, Ronewa (Chemistry) (with distinction)**

**Dissertation:** Design, synthesis and anti-TB evaluation of 6-dialkylaminopyrimidine carboxamides

**Supervisor:** Dr PT Moshapo

**Co-Supervisor:** Prof HH Kinfe (University of Cape Town)

**Co-Supervisor:** Dr S Simelane (University of Eswatini, Swaziland)

## 7. Philosophiae Doctor (PhD)

**Bunu, Musa Ismaila (Chemistry)**

**Thesis:** A contribution to the phytochemical and biological study of two African medicinal plants

**Supervisor:** Prof DT Ndinteh

**Co-Supervisor:** Prof R Krause (Rhodes University)

**Miner, Kangyang Josiah (Environmental Management)**

**Thesis:** A critical evaluation of current e-waste management and recycling practices in the Jos Metropolis in Nigeria

**Supervisor:** Prof IT Rampedi

**Co-Supervisor:** Prof AP Ifegbesan (Olabisi Onabanjo University, Nigeria)

**Oyedeji Amusa**, Mariam Oyefunke (Botany)

**Thesis:** A multidisciplinary study of South African Meliaceae

**Supervisor:** Prof B-E van Wyk

**Co-Supervisor:** Dr N Sadgrove (Royal Botanical Gardens, KEW, UK)

**Paprika**, Dora Edit (Geology)

**Thesis:** Mesoarchaeon volcanism and associated hydrothermal activity of the Dominion Group in the Ottosdal area, South Africa - implications for Witwatersrand Basin gold

**Supervisor:** Prof A Hofmann

**Co-Supervisor:** Prof A Agangi (Akita University, Japan)

**Photolo**, Mampolelo Mirriam (Biochemistry)

**Thesis:** Genomic and application-based characterization of *Methylobacterium radiotolerans* MAMP4754, a bacterial endophyte from *Combretum erythrophyllum*

**Supervisor:** Dr MG Tlou (North-West University)

**Co-Supervisor:** Dr LJ Sitole

**Co-Supervisor:** Dr V Mavumengwana (Stellenbosch University)

## **Bunu, Musa Ismaila (PhD)**

Born in Kontagora, Niger State, Nigeria, Mr Bunu completed his secondary school education at the Government Science College Kutigi, Nigeria. He obtained his BSc and MSc in applied chemistry from Usmanu Danfodiyo University Sokoto, Nigeria in 1999 and 2013 respectively, and joined the UJ for his PhD in Chemistry in 2017.

Mr Bunu's study investigated the potency of some African medicinal plants that are commonly used in traditional medicine as antibacterial and antiplasmodial agents. The bark of these plant samples were extracted using different solvents in an ascending polarity such as hexane, ethyl acetate, chloroform, methanol and butanol; water (50/50 v/v). Phytochemical analysis was done on each of the extracted samples and GC-MS was performed on each of the crude extracts. Micro serial dilution was used on each crude extract to determine the minimum inhibitory concentration (MIC) and minimum bactericidal concentration. Moreover, *in vivo* antiplasmodial activity of each of the crude extracts was also conducted using mice as the experimental animal. It was observed that the tested plants and compounds isolated showed potency on both bacteria and malaria parasites. Mr Bunu's work has resulted in two papers published in international peer-reviewed journals and has been presented at two international conferences.

**Supervisor:** Prof DT Ndinteh

**Co-supervisor:** Prof R Krause (Rhodes University)



**Miner, Kangyang Josiah (PhD)**

Ms. Kangyang Miner was born in Jos (Plateau State, Nigeria) in 1981. She obtained her school leaving certificate in 1992 from Mafeng Private School in Jos. At the University of Jos, she completed a BSc (Geography and Planning) degree program as well as an MSc Environmental and Resources Planning degree qualification. She enrolled for a PhD (Environmental Management) degree qualification at the University of Johannesburg in 2017.

Electronic waste is one of the most rapidly increasing waste streams and is posing serious environmental and health challenges to the world, especially developing countries. In her doctoral study, Ms Miner conducted a critical evaluation of electronic waste management and recycling practices in the Jos Metropolis of Nigeria by applying a mixed-methods research design. Primary data from various groups of respondents were collected by means of questionnaire-administered interviews. Amongst households, the most common waste items were identified and they were disposed of by various unsustainable methods while re-utilization and recycling were limited. On the other hand, informal waste pickers recovered some of these waste items, thus contributing to waste minimization. Based on the barriers hampering effective recycling in this metropolis, appropriate recommendations were made for improved practices. The candidate has presented her work in one international conference and one manuscript has been published while others are currently under review.

**Supervisor:** Prof IT Rampedi

**Co-supervisor:** Prof AP Ifegbesan (Olabisi Onabanjo University, Nigeria)



**Oyedeji Amusa, Mariam Oyefunke (PhD)**

Ms Oyedeji Amusa was born in Nigeria and holds an MSc in Pharmacognosy from the University of Ibadan, Nigeria. She enrolled for a PhD in Botany at the University of Johannesburg in 2017 and is currently conducting postdoctoral research for a collaborative project at the University of the Witwatersrand and the University of Johannesburg.

A multi-disciplinary approach was used to study all 13 indigenous species from seven genera of South African *Meliaceae*. An ethnobotanical review recorded 85 traditional uses against infectious diseases and other disorders. A detailed review of the chemistry revealed complex mixtures of limonoids and protolimonoids. The antimicrobial activity of leaf and bark extracts was evaluated using the micro-plate dilution assay. Extracts showed noteworthy (0.13 mg/ml) and moderate (0.25–0.50 mg/ml) activity against *Streptococcus mutans* and other oral pathogens. Anatomical studies of wood found that nonseptate fibres, axial parenchyma with crystals and wide heterocellular rays are ancestral conditions in the subfamily *Melioideae*. DNA sequence data were generated using the plastid genes *rbcl*a and *matK*, and nuclear 26S rDNA. Almost all South African genera were monophyletic with strong support. A taxonomic revision was presented, including identification keys, taxon descriptions, typifications and distribution maps. The candidate has published three peer reviewed articles in international journals.

**Supervisor:** Prof B-E van Wyk

**Co-supervisor:** Dr N Sadgrove (Royal Botanical Gardens, KEW, UK)





## **Paprika, Dóra Edit (PhD)**

Miss Paprika was born in Kiskunhalas (Hungary) and holds an MSc degree in Geology from Eötvös Loránd University, Budapest (Hungary). Prior to her PhD, she worked as an exploration geologist for 7 years, investigating various coal and uranium projects in Hungary. She enrolled for a PhD at the University of Johannesburg in 2017 and is currently preparing for post-doctoral research.

Archaean volcano-sedimentary successions provide a record of early Earth evolution and the emergence of life. An exceptionally well-preserved succession of up to 3-billion-year-old strata is present in the Witwatersrand Basin of South Africa. The Mesoarchaean Dominion Group is situated at the base of this succession and forms the oldest supracrustal cover of the Kaapvaal Craton. In her doctoral study, Dora Paprika focused on volcano-sedimentary units of the Dominion Group, exposed in an area around Ottosdal, North West Province. She conducted field and analytical work to provide new constraints on the stratigraphy, age, composition, and alteration of the volcanic and sedimentary rocks of the area. Her study contributed to the understanding of the early days of the Kaapvaal Craton and broadened the knowledge of early Earth surface processes. Dora presented her work at one international and three national conferences and co-authored three articles in high-impact international journals.

**Supervisor:** Prof A Hofmann

**Co-supervisor:** Prof A Agangi (Akita University, Japan)



**Photolo, Mampolelo Mirriam (PhD)**

Mampolelo was born in Welkom (Free State, South Africa) and raised in Qwa-qwa (Free State, South Africa). Following a BSc in Microbiology and Genetics, she obtained a BSc (Hons) and an MSc in Genetics from the University of KwaZulu Natal. Miss Photolo received support from the National Research Council (NRF) and the LGC Group for her PhD studies. She was briefly employed by North-West University as a contract lecturer and is now employed as a Candidate Scientist at the Department of Water and Sanitation.

In her doctoral study, Ms Photolo used bioinformatics tools to sequence the endophyte, *Methylobacterium radiotolerans* strain MAMP 4754 isolated from the known hyperaccumulator and medicinal plant, *Combretum erythrophylum*. Extracted secondary metabolites produced by the endophyte were also evaluated for antimicrobial and antioxidant activity. The results revealed noteworthy antimicrobial activity against both Gram-positive and Gram-negative bacteria. Using various techniques, Ms Photolo was also able to show that the endophyte consists of genes that allow it to share similar hyperaccumulator characteristics to that of its host plant and could thus be used in the bioremediation of heavy metals. This study suggests that bioprospecting of endophytes for their potential bioactivities can assist in the conservation and preservation of medicinal plants. The candidate's work has been published in four peer-reviewed accredited journals.

**Supervisor:** Dr MG Tlou (North-West University)

**Co-supervisor:** Dr LJ Sitole

**Co-supervisor:** Dr V Mavumengwana (Stellenbosch University)





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## National Anthem of South Africa

Nkosi sikelel' Afrika  
Maluphakanyisw' uphondo lwayo,

Yizwa imithandazo yethu,  
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,  
O fedise dintwa le 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.