

2022



**RHODES UNIVERSITY**  
*Where leaders learn*

Rhodes University  
**Research  
Report**

---

A publication of the Rhodes University  
Research Office, compiled and edited by  
**Jaine Roberts, Thumeka Mantolo and  
Anela Nzwanga.**

---

**RESEARCH OFFICE:**

Director: Jaine Roberts  
email: [j.roberts@ru.ac.za](mailto:j.roberts@ru.ac.za)  
tel: +27 (0)46 603 8756/7572

**[www.ru.ac.za](http://www.ru.ac.za)**

Cover Photo: School of Journalism and Media Studies' Africa  
Media Matrix building. Photo: Chris Marais

Back Photo: Wood gatherers in Grahamstown in the late  
1980s. Photo: TJ Lemon

---

# TABLE OF CONTENTS

03	<b>Foreword</b> Professor Sizwe Mabizela, Vice-Chancellor and Professor Peter Clayton, Deputy Vice-Chancellor, Research and Innovation	63	<b>The Art of Ethical Lawyering</b> Associate Professor Helen Kruuse
07	<b>Top 30 Researchers</b>	67	<b>The Economics of Everything</b> Associate Professor Juniors Marire
08	<b>PhD Graduates</b>	71	<b>The Socialisation of Wealth</b> Dr Xolile Antoni
15	<b>Vice-Chancellor's Distinguished Research Award</b> Associate Professor Iain Paterson	74	<b>Charismatic Megafauna</b> Dr Nokubonga Mqatsa
22	<b>Vice-Chancellor's Book Award</b> Professor Emeritus Chrissie Boughey and Professor Sioux McKenna	79	<b>Man of the People</b> Professor Sonwabile Mnwana
28	<b>The House of Story</b> 50th Anniversary of the School of Journalism and Media Studies	84	<b>The Magic of Mycorrhizas</b> Professor Jo Dames
36	<b>The Graduates</b> School of Journalism and Media Studies	89	<b>History, Activism and the Chem Lab that Blew Up</b> Associate Professor Alan Kirkaldy
45	<b>Lighting the way ahead</b> Staff of the School of Journalism and Media Studies	94	<b>The Edge of the Sea</b> Associate Professor Amber-Robyn Childs
52	<b>The Jobs Market</b> School of Journalism and Media Studies	99	<b>The Nature of Chemistry</b> Professor Rui Krause
55	<b>Tracking the Media Trends</b> School of Journalism and Media Studies	103	<b>In the Flow</b> Associate Professor Nelson Odume
58	<b>Mainstream Media vs Government in Apartheid era South Africa</b> School of Journalism and Media Studies		

---

## DEPARTMENTS

---

108	Centre for Higher Education Research, Teaching and Learning (CHERTL)
111	Centre for Postgraduate Studies (CPGS)
114	Community Engagement
119	Library Services
124	Department of Accounting
125	Department of Anthropology
128	Department of Biochemistry and Microbiology
135	Department of Biotechnology and the Biotechnology Innovation Centre (RUBIC)
138	Department of Botany
142	Department of Chemistry
149	Department of Computer Science
152	Department of Drama
155	Department of Economics and Economic History
159	Faculty of Education: Department of Secondary and Post-School Education (DoSPSE)
163	Faculty of Education: Department of Primary and Early Childhood Education (PECE)
173	Department of Environmental Science
176	Department of Fine Art
184	Department of Geography
187	Department of Geology
191	Department of History
194	Department of Human Kinetics and Ergonomics (HKE)
197	Department of Ichthyology and Fisheries Science
202	Department of Information Systems
204	School of Journalism and Media Studies
210	Faculty of Law
213	Department of Linguistics and Applied Language Studies

215	Department of Literary Studies in English
219	Department of Management
221	Department of Mathematics (Pure and Applied)
223	Department of Music and Musicology
226	International Library of African Music (ILAM)
228	Faculty of Pharmacy
232	Department of Philosophy
234	Department of Physics and Electronics
240	Department of Political and International Studies
243	Department of Psychology
247	Rhodes Business School
249	School of Languages and Literatures
252	Department of Sociology and Industrial Sociology
257	Department of Statistics
280	Department of Zoology and Entomology

## AFFILIATES AND INSTITUTES

---

273	Albany Museum
277	Institute for Environmental Biotechnology Rhodes University (EBRU)
279	Institute for the Study of Englishes of Africa (ISEA)
281	Institute of Social and Economic Research (ISER)
285	Institute for Water Research (IWR)
289	South African Institute for Aquatic Biodiversity (SAIAB)



## Foreword

*From Left to Right:* The Chancellor of Rhodes University, Judge Lex Mpati; DVC: Research & Innovation, Professor Peter Clayton; DVC: Academic & Student Affairs, Professor Mabokang Monnapula-Mapesela; and the VC, Professor Sizwe Mabizela.

Photo: Velisile Bukula

2022 was a year in which Rhodes University reviewed its purpose and reimagined its future. All stakeholders, ranging from current students and staff, to alumni, collaborators, community partners, councillors, governors and funders, were invited to participate in the process of reflection and reimagination, and to craft a new roadmap. This culminated in the University Council adopting a revised Institutional Development Plan (IDP) at its final meeting of 2022.

Rhodes University exists to serve three core purposes, each of them deeply traditional in nature, but each also required to be acutely attuned to the changing inflections of the era:

1. To *produce and disseminate knowledge* through all kinds of research, creative endeavours and scholarship, so that we can advance the frontiers of knowledge, human understanding and wisdom.

ii. To teach in ways which allow and encourage our students to engage critically with **knowledge** and its production. Through our teaching, our students should not only develop a critical appreciation of the ways in which we gain knowledge and understanding of the universe, of society, and of ourselves, but should also be inducted into the intricacies of knowledge-making.

iii. To discharge our critical **societal responsibility** through engagement with the pressing questions of the day, whether these are urgent local needs in our own community, or wider issues confronting societies globally. Universities do not exist in a vacuum - they exist within a particular social, economic, cultural, political and historical context, and are an integral part of the community in which they exist.

In short, our University is a place of knowledge, a place of ideas, a community of scholars engaged in the generation, dissemination and application of knowledge in the service of humanity. The revised IDP strengthens our institutional resolve to be a scholarly university, and one that produces graduates who are ethical leaders, committed to the values of human understanding, social justice, human development and service to humanity.

The idea of Rhodes University as a research led intellectual space was seeded in the 1970s, with a number of our country's research pioneers setting a research trajectory at our institution. In the 2000s, Rhodes University's research productivity had grown to become among the highest per capita in the South African Higher Education sector. The

University appointed Professor Peter Clayton as its first Deputy Vice-Chancellor: Research and Innovation in 2008. Professor Clayton retired in December 2022.

Many researchers of outstanding scholarly reputation and productivity have emerged within our intellectual space, prompting the University to introduce a *Distinguished Professor* academic rank to recognise scholarly work of international acclaim. To date the title has been conferred on eight research scholars, two of them during the year under review.

**Professor Oleg Smirnov** (Radio Astronomy techniques), a world authority on radio astronomy interferometry, who has been a critical success factor in South Africa's leadership role of the SKA (Square Kilometer Array), and one of the reasons why Rhodes University continues to be a world name in radio astronomy. He was awarded an NRF A rating (signifying that he is a world leader in the field) in 2022, with one of his peer reviewers noting that "*Prof Smirnov's group is not just a leading R&D group for interferometric imaging, it is THE leading group in the world.*"

**Professor Charlie Shackleton** (Environmental Science), widely regarded as one of Africa's foremost authorities on sustainable livelihoods. He is best known for his work on non-timber forest products and livelihoods. His work has had an influence on policy and practice in the conservation and sustainable use of natural resources, both in South Africa and globally.



Professor Peter Clayton at his farewell dinner, 30 November 2022.

Photo: Velisile Bukula



From Left to Right: Dean of Humanities, Associate Professor Enocent Msindo; Professor Emeritus Pat Terry; Dean of Education, Professor Eureka Rosenberg; Professor Peter Clayton; Dean of Science, Professor Tony Booth; Dean of Commerce Professor Dave Sewry; and Dean of Law, Professor Laurence Juma. Photo: Velisile Bukula



Jaine Roberts, Director: Research Office  
Photo: Velisile Bukula

In 2022 the University underwent an institutional accreditation audit by the Council on Higher Education, which focussed on the ongoing quality of both the Undergraduate and Postgraduate offerings at Rhodes University. The reports and accompanying evidence highlighted the institution as a small university that enjoys the distinction of having among the best undergraduate pass and graduation rates in South Africa, high Postgraduate success rates in relation to the sector, and being amongst the top performing institutions with respect to research output per academic staff member.

2022 was a very special graduation year for many reasons. After two years of Covid-19 lockdowns with virtual online graduation ceremonies, our graduation ceremonies were once again held in a physical space, and were wonderful celebratory occasions.

Many of our outstanding scholars attracted external acclaim during the year under review.

**Distinguished Professor Heila Lotz-Sisitka** was appointed to UNESCO's International Expert Group for revising the "1974 Recommendation concerning Education for International Understanding, Cooperation and Peace, and Education relating to Human Rights and Fundamental Freedoms". Only 24 experts chosen from across the globe serve on this expert group, which will revise this policy instrument to govern UNESCO member countries in promoting the role of education in eradicating conditions that threaten human survival and well-being.

**Professor Jen Snowball** was appointed to the Board of Advisors of the United Nations Conference on Trade and Development Creative Economy Section.

School of Journalism and Media Studies TV Lecturer, **Ms Thandeka Gqubule-Mbeki**, was appointed to President Cyril Ramaphosa's National Anti-Corruption Advisory Council.

Several of our SARCHI Chairs received renewals from the National Research Foundation after rigorous external 5-year reviews. These were **Professor Dion Nkomo** (Intellectualisation of African Languages, Multilingualism and Education), **Distinguished Professor Charlie Shackleton** (Interdisciplinary Science in Land and Natural Resource Use for Sustainable Livelihoods), and **Distinguished Professor Oleg Smirnov** (Radio Astronomy Techniques & Technologies). Two additional SARCHI Chairs underwent successful reviews, which will result in the renewal of their chairs in 2023: **Distinguished Professor Catriona Macleod** (Critical Studies in Sexualities and Reproduction), and **Distinguished Professor Martin Hill** (Insects in Sustainable Agricultural Ecosystems).

**Professor Adrienne Edkins** was awarded an African Research Leader grant from the UK Medical Research Council. The funding from this award will enable her to continue her work on AIDS-related cancers in collaboration with Leeds University.

**Emeritus Professor Denis Hughes** was awarded the Southern African Society of Aquatic Scientists' Gold Medal for his outstanding contribution to Aquatic Sciences over a life time.

The Vice-Chancellor's Distinguished Research Award for 2022 was awarded to **Associate Professor Iain Paterson** of the Centre for Biological Control.

The Vice-Chancellor's Book Award for 2022 was awarded to **Professors Chrissie Boughey and Sioux McKenna** for their jointly authored book *Understanding Higher Education - Alternative Perspectives*, (African Minds, 2021).

Many other individual academics received widespread national and international acknowledgement of their work. Their fine accomplishments are contained within the pages of this report.

We extend our congratulations and thanks to all of our researchers, supervisors, collaborators, funders, donors, and partners who contributed to making 2022 a year in which research at Rhodes University flourished. Your expertise, integrity, dedication, rigour and generosity make Rhodes University the rich and distinctive intellectual space that it is.

Professor Peter Clayton and Louisa Clayton.

Photo: Velisile Bukula



# 2022

## Top 30 Researchers

Rhodes University acknowledges and congratulates the following for their accredited research outputs (Journal Publications, Books & Chapters, and Masters/Doctoral students graduated) in 2022:

- Distinguished Professor Tebello Nyokong**  
Department of Chemistry,  
Rhodes/DST Institute for Nanotechnology Innovation
- Distinguished Professor Heila Lotz-Sisitka**  
Faculty of Education,  
Environmental Research Learning Centre (ELRC)
- Associate Professor Enocent Msindo**  
Dean of Humanities
- Professor Kirk Helliker**  
Department of Sociology and Industrial Sociology
- Professor Rui Krause**  
Department of Chemistry
- Distinguished Professor Charlie Shackleton**  
Department of Environmental Science
- Associate Professor Kevin Lobb**  
Department of Chemistry
- Professor Adrienne Edkins**  
Department of Biochemistry and Microbiology
- Associate Professor Alan Kirkaldy**  
Department of History
- Professor Özlem Tastan Bishop**  
Department of Biochemistry and Microbiology
- Distinguished Professor Catriona Macleod**  
Department of Psychology
- Dr Pascall Taruvinga**  
Department of Anthropology
- Associate Professor Philani Mashazi**  
Department of Chemistry,  
Rhodes/DST Institute for Nanotechnology Innovation
- Professor William Froneman**  
Department of Zoology and Entomology
- Professor Kenneth Ngcoza**  
Faculty of Education,  
Department of Secondary and Post School Education
- Distinguished Professor Martin Hill**  
Department of Zoology and Entomology,  
Centre for Biological Control
- Associate Professor Sally Matthews**  
Department of Political and International Studies
- Professor Jen Snowball**  
Department of Economics and Economic History
- Professor Julie Coetzee**  
Department of Zoology & Entomology
- Associate Professor Charlene Lubaale**  
Faculty of Law
- Professor Warren Potts**  
Department of Ichthyology and Fisheries Science
- Professor Sioux McKenna**  
Centre for Postgraduate Studies
- Dr Clement Simuja**  
Faculty of Education,  
Department of Secondary and Post School Education
- Professor Mellony Graven**  
Faculty of Education,  
Department of Primary and Early Childhood Education
- Professor James Gambiza**  
Department of Environmental Science
- Associate Professor Sheunesu Ruwanza**  
Department of Environmental Science
- Associate Professor Amber Childs**  
Department of Ichthyology and Fisheries Science
- Associate Professor John Mack**  
Department of Chemistry,  
Rhodes/DST Institute for Nanotechnology Innovation
- Professor Rosemary A. Dorrington**  
Department of Biochemistry and Microbiology
- Associate Professor Nelson Odume**  
Institute for Water Research



# 2022

## PhD Graduates

### FACULTY OF COMMERCE (5 PhDs)

#### DEGREE OF DOCTOR OF PHILOSOPHY

**GIBSON-TESENDORF, Jacoba Cornelia**, NDip, HDip (Vaal Triangle), MBA (Rhodes), in Management, in the Rhodes Business School. Degree by thesis. Thesis: *A grounded theory study of the identity and career decisions of artistic creative entrepreneurs.*

Supervisor: Professor NJ Pearse.

Co-supervisor: Professor MME Mohapeloa.

**NXOZI, Monelo**, BSc (InfSys) (Rhodes), MBA (WITS), in Information Systems, in the Department of Information Systems. Degree by thesis. Thesis: *A compliance framework for IT governance adoption and use by state-owned entities in South Africa.*

Supervisor: Professor SV Flowerday.

**NTSONGE, Sinazo**, MSc (Rhodes), in Economics, in the Department of Economics and Economic History. Degree by thesis. Thesis: *Developing a framework for assessing the socioeconomic success of Expanded Public Works Programmes (EPWP): The case of the Prosopis mesquite Working for Water clearing project in the Northern Cape Province, South Africa.*

Supervisor: Professor GCG Fraser.

Co-supervisor: Professor JD Snowball.

**OWEN, Morné**, NDip (IT) (PE Technikon), BTech (Technikon SA), MTech (NMMU), in Information Systems, in the Department of Information Systems. Degree by thesis. Thesis: *The role of optimism bias in susceptibility to phishing attacks in a financial services organisation.*

Supervisor: Professor SV Flowerday.

**SIMBI, Chipo**, BSc (WUA), BComHons (Great Zimbabwe), MAcc, DipEd (Zimbabwe), in Accounting, in the Department of Accounting. Degree by thesis. Thesis: *The adoption of international financial reporting standards and foreign direct investment inflows: The moderating effect of the institutional environment in Africa.*

Supervisor: Professor EM Stack.

Co-supervisor: Dr SA Khumalo.

### FACULTY OF EDUCATION (14 PhDs)

#### DEGREE OF DOCTOR OF PHILOSOPHY

**BHUREKENI, John**, Med (Great Zimbabwe), in Education, in the Department of Education. Degree by thesis. Thesis: *Exploring aspects of community of inquiry (COI) in Afrophilia learning processes for transformative education using an Afrophilic "Philosophy for Children" approach.*

Supervisor: Distinguished Professor H Lotz-Sisitka.

Co-supervisor: Professor RB O'Donoghue.

**FERGUSON, Robin Anne**, MPhil (Stell), in Education, in the Department of Education. Degree by thesis. Thesis: *A Pedagogy of Love: Reflections on 25 years of informal vocational education and training practices in the commercial fishing industry in South Africa.*

Supervisor: Distinguished Professor H Lotz-Sisitka.

**HODGSKISS, Jennifer Adelé**, MEd (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *An in-depth investigation of an early literacy intervention in Grade R.*

Supervisor: Dr C van der Mescht.

**LOVEMORE, Tarryn Shirley**, MEd (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *Integrating music and mathematics for connecting across multiple constructs of fractional understanding: An RME task design journey.*

Supervisor: Dr S-A Robertson.

Co-supervisor: Professor M Graven.

**SIMASIKU, Fredrick Simataa**, MEd (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *Leveraging a peer-learning community and expert community members in the integration of indigenous knowledge into the learning and teaching of Grade 10 Chemistry on the rate of reactions.*

Supervisor: Professor K Ngcoza.

Co-supervisor: Dr Z Nhase (UFS).

**ANDREWS, Ruth**, BA (Stell), MBA (Rhodes), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *The morphogenesis of higher education leadership - A social realist exploratory journey.*

Supervisor: Professor CM Boughey.

**CHANYAU, Ludwig**, BScHons (Zimbabwe), MSocSci (UCT), in Education, in the Department of Secondary and Post-School Education. Degree by thesis. Thesis: *Learning to make a difference: Small-scale women farmers in social learning spaces for climate action.*

Supervisor: Professor E Rosenberg.

---

**JUNIUS, Daniel Franscius**, BEd (Namibia), MEd (Rhodes), in Education, in the Department of Secondary and Post-School Education. Degree by thesis. Thesis: *The use of dynamic software to potentially enhance conceptual understanding and a productive disposition in the visual learning of algebra: an interventionist case study.*

Supervisor: Professor M Schäfer.

---

**KALIMA, Robert Chagwamtsoka**, BEd (Malawi), MSc (Kumamoto), in Education, in the Department of Primary and Early Childhood Education. Degree by thesis. Thesis: *Field facilitation in open and distance learning in resource-constrained environments: a case of Mzuzu University, Malawi.*

Supervisor: Professor C Grant.

Co-supervisors: Dr S Clarence and Professor S McKenna.

---

**KIGUNDU, Stephen**, DipEd (Makerere), BEdHons (Transkei), MA (UKZN), in Education, in the Department of Primary and Early Childhood Education. Degree by thesis. Thesis: *Design of an LMS-mediated tutorial to support deep and effective engagement in the process of learning mathematics.*

Supervisor: Professor B Brown.

---

**KNOWLES, Corinne Ruth**, BA (UPE), HDE (UCT), MA, PGDip(HE) (Rhodes), in Education, in the Department of Secondary and Post-School Education. Degree by thesis. Thesis: *With dreams in our hands: towards transgressive knowledge-making cultures.*

Supervisor: Dr D McGarry.

Co-supervisor: Distinguished Professor H Lotz-Sisitka.

---

**MABOTE, Ntele Emily**, BTech, MTech (TUT), PGDip (HE) (Rhodes), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *Mechanisms conditioning the implementation of an integrated quality assurance and enhancement approach at a South African University of Technology.*

Supervisor: Professor LE Quinn.

---

**MAGXALA, Xoliswa Patience**, MEd (WSU), in Education, in the Institute for the Study of the Englishes of Africa. Degree by thesis. Thesis: *Exploring the interplay between Foundation Phase learners' home and school literacy practices.*

Supervisor: Professor M Hendricks.

Co-supervisor: Professor M Mbelani.

---

**THEODORIO, Adedayo Olayinka**, BSc (Olabisi Onabanjo), MEd (Ibadan), MSc (Ibadan), in Education, in the Department of Secondary and Post-School Education. Degree by thesis. Thesis: *TPACK Development: Technology integration with teacher educators in foundation phase teacher training programme.*

Supervisor: Dr C Simuja.

---

## FACULTY OF HUMANITIES (25)

---

### DEGREE OF DOCTOR OF PHILOSOPHY

---

**AJIBORO, Aderonke Adeyinka**, MA (Obafemi Awolowo), in Philosophy, in the Department of Philosophy. Degree by thesis. Thesis: *Anonymous Testimony and Epistemic Responsibility.*

Supervisor: Professor W Jones.

---

**ANJUGU, Taimako Ajigo**, BAHons (Jos), MA (Benue State), in French, in the School of Languages and Literatures. Degree by thesis. Thesis: *"Délices et négation: une approche de l'écriture féminine à travers dix romans francophones africains." [Delight and negation: An analysis of feminine writing in ten selected Francophone African novels.]*

Supervisor: Professor PK Mwepu.

---

**BARKER, Kim Elise**, BA (WITS), MPhil (Cantab), MTh (UNISA), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *Impacts of participating in an anti-rape protest: listening to and thinking with the narratives of victim-survivors.*

Supervisor: Professor T Feltham-King.

Co-Supervisor: Distinguished Professor CI Macleod.

---

**CAHILL, Susan Mary**, MSocSci (Natal), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *Action Research reflecting the process of a collaborative, multi-theoretical group intervention with foster parents of children affected by childhood trauma.*

Supervisor: Professor J Akhurst.

---

**CHRISTIE, Camilla Rose**, BA, PGDip (Library Studies), BAHons, MA (UCT), MA (Rhodes), in English Language & Linguistics, in the Department of Linguistics and Applied Language Studies. Degree by thesis. Thesis: *Click consonants in contact: a comparative sociohistorical analysis with special reference to Nama-Afrikaans contact.*

Supervisor: Dr W Bennett.

Co-supervisor: Professor MA de Vos.

---

**DU TOIT, Ryan Rudolph**, MSocSci (UKZN), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *"How do you feel about the abortion?": pre-termination of pregnancy counselling in the public health sector in the Eastern Cape.*

Supervisor: Distinguished Professor CI Macleod.

---

**GABIE, Sharon**, MA (WITS), in Anthropology, in the Department of Anthropology. Degree by thesis. Thesis: *Izit? Hoe lyk hulle? Kom ons \_Xoa - A South African Khoe-San narrative.*

Supervisor: Professor J Owen (UFS).

---

**GORHAM, Catherine Margaret**, BAHons (Rhodes), in Sociology, in the Department of Sociology. Degree by thesis. Thesis: *An examination of the use and value of support systems for people living with HIV/AIDS in Makhanda.*

Supervisor: Professor JJ Roodt.

---

---

**GRAHAM, Nicola Susan Jearey**, BA (Wits), BAHons, MA (Rhodes), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *A formative evaluation and critical analysis of an alcohol and pregnancy intervention in the Eastern Cape of South Africa.*

Supervisor: Distinguished Professor CI Macleod.

---

**HAINÉ, Phillipa Claire**, BSc, BAHons (Stell), MA (Rhodes), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *The professional experiences of early career counselling psychologists in South Africa: A mixed method study.*

Supervisor: Professor CS Young.  
Co-supervisor: Dr DD Booyesen.

---

**HUMAN, Antoinette Charlotte Lucy**, MEd (Pretoria), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *Developing and exploring a career education programme for disadvantaged FET-phase learners in the northern areas of Gqeberha: A developmental-contextual approach.*

Supervisor: Professor J Akhurst.

---

**KALICHINI, Gladys Melina**, BA (Zambia), MFA (Rhodes), in Art History, in the Department of Fine Art. Degree by thesis. Thesis: *InVisible Freedom Fighter: A critical analysis of portrayals of women in archival photographs, independence monuments and contemporary art in Zambia (Northern Rhodesia) and Zimbabwe (Southern Rhodesia).*

Supervisor: Professor R Simbao.

---

**KENQU, Amanda Yolisa**, BAHons (Wits), MA (Rhodes), in English, in the Department of Literary Studies in English. Degree by thesis. Thesis: *From euphoria to disenchantment: The intangible in black post-Apartheid South African fiction.*

Supervisor: Dr SJ Marais.

---

**LEWIS, Christine**, BSocSci, BSocSciHons, PGCert. (FETP) (UFS), MSocSci (UFH), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *The relevance of career counselling in higher education: a study following students at a South African university.*

Supervisor: Professor J Akhurst.

---

**LUMASIA, Patrick Chesi**, BEd, MA (Nairobi), in English, in the Department of Literary Studies in English. Degree by thesis. Thesis: *Kenyan comedy: transmogrifying stereotypes and fashioning a "Kenyaness" of aesthetic escapism.*

Supervisor: Professor LG Spencer.  
Co-supervisor: Dr M Dass.

---

**MOKOATSI, Thapelo**, MA (UFS), in History, in the Department of History. Degree by thesis. Thesis: *Saul Msane: Friend or Foe of the people? The life of the late nineteenth to early twentieth centuries South African politician and journalist.*

Supervisor: Professor J Wells.

---

**MUVHUTI, Tichapera Barnabas**, DipEd (Hillside), BAHons (MSU), BAHons (UCT), MPhil (Stell), in Art History, in the

Department of Fine Art. Degree by thesis. Thesis: *Revisionist Narratives: Locating Six Black Artist-teachers onto the Map of Twentieth-Century Modern Art in Zimbabwe.*

Supervisor: Professor R Simbao.

---

**MVUNDURA, Emaculate Musimeki**, BAHons (Africa), MA (Midlands), in English Language & Linguistics, in the Department of Linguistics and Applied Language Studies. Degree by thesis. Thesis: *Seeing diplomatic relations through diplomatic constellations: An analysis of the positioning of Zimbabwe and the United Kingdom in Zimbabwean news articles.*

Supervisor: Dr I Siebörger.

---

**NGOMA, Amuzweni Lerato**, MA (Wits), in Sociology, in the Department of Sociology. Degree by thesis. Thesis: *Mega-churches and the neo-pentecostalisation of South Africa's black middle class.*

Supervisor: Professor LJW Van der Walt.  
Co-supervisor: Professor RJ Southall.

---

**PANCHIA, Bhavisha Laxmi**, BAFA (Wits), MA (CCS Bard College), MA (Wits), in Art History, in the Department of Fine Art. Degree by thesis. Thesis: *Playing it back: audible traces in contemporary African art.*

Supervisor: Dr T Goniwe.

---

**RUNGAN, Natalie**, MMus (Natal), in Music, in the Department of Music and Musicology. Degree by thesis. Thesis: *Creating jazz pedagogical strategies: An A/R/Tographic investigation of the South African jazz caps syllabus.*

Supervisor: Dr B McConnachie.

---

**SHAIK, Shabnam**, BSocSci, BSocSciHons, MSocSci (UKZN), in Anthropology, in the Department of Anthropology. Degree by thesis. Thesis: *Lifting the veil on the 'Untouchable': a study of Muslims living with HIV in Durban, South Africa.*

Supervisor: Dr S De la Porte (UKZN).  
Co-supervisor: Professor M Dold Cocks.

---

**UNEGBU, Osondu Chukwuemeka**, BA (Abia State), MA (Bayero), in English Language & Linguistics, in the Department of Linguistics and Applied Language Studies. Degree by thesis. Thesis: *An analysis of power relations, affiliation, and individuation in selected inaugural, coup and secession speeches of Nigerian leaders, 1960-2015.*

Supervisor: Dr I Siebörger.

---

**VORSTER, Angela Carol**, MA (UFS), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *South African women's experience of the decision, procedure and recovery from 'foeticide' and late termination of pregnancy due to the presence of severe foetal abnormality: women's and health service providers' perspectives.*

Supervisor: Distinguished Professor CI Macleod.  
Co-supervisor: Professor LA Wilbraham.

---

**WILLIAMS, Ulagh**, MMus (NMU), in Music, in the Department of Music and Musicology. Degree by thesis. Thesis: *Beyond*

---

mastery: jazz, gender, and power in post-apartheid South Africa.

Supervisor: Dr N Rama.

---

## FACULTY OF PHARMACY (3)

---

### DEGREE OF DOCTOR OF PHILOSOPHY

**DUXBURY, Theodore Orlando**, MPharm (Rhodes), in Pharmacy Practice, in the Faculty of Pharmacy. Degree by thesis. Thesis: *Understanding critical concepts in engaged research to promote health resilience: the case of a systems analysis and epistemically just rural health development project in South Africa.*

Supervisor: Dr SA Paphitis (KCL).

Co-supervisors: Professor R Tandlich and Dr J Bezerra.

---

**MADIKIZELA, Phindile**, MSc (Pharmacy) (Rhodes), in Pharmacy, in the Faculty of Pharmacy. Degree by thesis. Thesis: *Disaster risk management issues in WASH in South Africa: examinations of selected challenges and development of novel solutions.*

Supervisor: Professor R Tandlich.

---

**SHARMA, Samridhi**, BPharm (Rhodes), in Pharmacy, in the Faculty of Pharmacy. Degree by thesis. Thesis: *Health communication for antimicrobial resistance and stewardship in the Makana local municipality, South Africa.*

Supervisor: Professor S Srinivas.

Co-supervisor: Professor R Tandlich.

---

## FACULTY OF SCIENCE (45)

---

### DEGREE OF DOCTOR OF PHILOSOPHY

**ABAHO, Ivan**, MSc (Makerere), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *The androgenic and anabolic effects of pine pollen on Nile tilapia (*Oreochromis niloticus*).*

Supervisor: Professor CLW Jones.

Co-supervisors: Professor C Masembe and Dr P Akoll.

---

**BAILEY, Lauren Ashleigh**, MSc (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *The link between behavioural plasticity and aerobic scope phenotypes in predicting the survival of *Chrysoblephus laticeps* under climate variability.*

Supervisor: Dr A-R Childs.

Co-supervisors: Professor WM Potts and Dr N James (SAIAB).

---

**BAROZI, Victor**, BBLT (Makerere), MSc (Rhodes), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *In silico characterization of missense mutations in infectious diseases: case studies of tuberculosis and Covid-19.*

Supervisor: Professor O Tastan Bishop.

---

**CHINDIPHA, Stones Dalitso**, MSc (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: *Evaluation of the Effectiveness of Small Aperture Network Telescopes as IBR Data Sources.*

Supervisor: Professor BVW Irwin.

Co-supervisor: Dr A Herbert.

---

**CHITHAMBO, Bertha**, BSc (Malawi), MA (The Open University), MSc, PGCert. (Education) (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Synthesis of natural product-inspired imido and 3,5-disubstituted-1,2,4-oxadiazolo phosphonates as potential anti-malarial agents.*

Supervisor: Professor RWM Krause.

Co-supervisor: Professor PT Kaye.

---

**DARAMOLA, Olamide Abiodun**, BSc (OOU), MSc (WSU) in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Rapid Synthesis of Thiol-Co-Capped CdTe/CdSe/ZnSe Multi-Core-Shell QDs and their encapsulation in liposomes and chitosan nanoparticles; Comparative bio-compatibility studies using HeLa and Vero cells.*

Supervisor: Professor RWM Krause.

---

**DUBE, Makasithembe**, BScHons (Midlands), MSc (NUST), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Arbuscular mycorrhizal fungi associated with wheat under conventional and conservation agricultural cultivation.*

Supervisor: Professor JF Dames.

---

**FRY, Anthony St Leger**, BSc (UCT), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: *Leverage points for meaningful participatory governance: Lessons from the Tsitsa River catchment, South Africa.*

Supervisor: Professor CG Palmer.

Co-supervisor: Dr JK Clifford-Holmes.

---

**GIBB, Ross-Lynne Alida**, MSc (NMU), in Microbiology, in the Department of Biochemistry & Microbiology. Degree by thesis. Thesis: *Phytoplankton communities provide insight into ecosystem functioning of the Agulhas Current system.*

Supervisor: Professor RA Dorrington.

Co-supervisor: Professor T Bornman (SAEON).

---

**HECKENDORN, Katrina Ann**, BSc (Idaho), MSc (Nevada), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Towards a better understanding of small-scale fishing decisions and their consequences in Northern Mozambique.*

Supervisor: Professor S Aswani.

Co-supervisors: Professor WHH Sauer and Dr A Bernard (SAIAB).

---

**ISEMONGER, Eric William**, BScHons (Rhodes), in Microbiology, in the Department of Biochemistry & Microbiology. Degree by thesis. Thesis: *South African supratidal microbialites: prokaryote communities, metabolic capabilities and biogeochemical processes.*

Supervisor: Professor RA Dorrington.  
Co-supervisor: Dr R Sipler (Bigelow Laboratory for Ocean Science).

---

**JAMABO, Miebaka**, BScHons (Niger Delta), MSc (JHU), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: *Characterization of Trypanosoma brucei St1 and its interactions with Trypanosoma brucei Hsp83 and human Hsp90.*

Supervisor: Professor A Boshoff.  
Co-supervisor: Professor AL Edkins.

---

**LIKONGWE, Patrick Jeremy**, BSc (Malawi), MSc (Jomo Kenyatta), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: *Status and potential of green infrastructure to support urban resilience in Zomba City, Malawi.*

Supervisor: Distinguished Professor CM Shackleton.

---

**NENE, Lindokuhle Cindy**, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *The development of ionic Zinc (II) phthalocyanines for sonophotodynamic combination therapy of cervical and breast cancer.*

Supervisor: Distinguished Professor T Nyokong.

---

**MAHLALELA, Maduma Ernest**, BScHons (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: *The heterologous expression and in vitro biochemical characterization of the Hsp70 escort protein 1 and mitochondrial Hsp70 partner proteins of the Trypanosoma brucei parasite and humans.*

Supervisor: Professor A Boshoff.

---

**MAÚSSE SITOÉ, Sílvia Natal David**, Lic Hons (Forest Engineering) (Eduardo Mondlane), MSc (Pretoria), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Arbuscular mycorrhizal fungi associated with maize in South Africa, under conventional and conservation agricultural cultivation.*

Supervisor: Professor JF Dames.

---

**MGIDLANA, Sithi**, BSc (WSU), MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Asymmetrical zinc(II) phthalocyanines conjugated to nanomaterials for degradation of organic pollutants and inactivation of Staphylococcus aureus bacteria.*

Supervisor: Distinguished Professor T Nyokong.

---

**MPOPETSI, Pule Peter**, MSc (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Exploring the drivers of co-occurring multiple non-native fish assemblages within an invaded and flow-modified African river system.*

Supervisor: Professor WT Kadye.

---

**MURONZI, Tendai**, BScHons (Zimbabwe), MSc (Rhodes), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Computational studies in human African trypanosomiasis.*

Supervisor: Professor O Tastan Bishop.

---

**MUTIZWA, Tadiwa Isaac**, BScHons (Zimbabwe), MSc (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Species diversity and biogeographic patterns of three genera of freshwater fishes in southern Africa.*

Supervisor: Professor WT Kadye.  
Co-supervisor: Dr A Chakona.

---

**NANDUTU, Irene**, BSc (UCU), MSc (UTAMU), in Applied Mathematics, in the Department of Mathematics. Degree by thesis. Thesis: *Wildlife- vehicle collisions mitigation measures using road ecological data and deep learning.*

Supervisor: Dr M Atemkeng.

---

**NDAGANO, Urbain Nshokano**, BSc (UCT), BScHons, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Silica supported sulfuric acid-catalysed one-pot processes for the synthesis of N-heterocycles.*

Supervisor: Professor R Klein.

---

**NDEBELE, Nobuhle**, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *The electrocatalytic activity of metallophthalocyanines and their conjugates with carbon nanomaterials and metal tungstate nanoparticles.*

Supervisor: Distinguished Professor T Nyokong.

---

**NJANJE, Idris**, MSc (Limpopo), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Screening isolation and biological characterization of antibacterial secondary metabolites from macrofauna endemic to the southern African coast.*

Supervisor: Professor RA Dorrington.  
Co-supervisor: Professor AL Edkins.

---

**NKHAHLE, Reitumetse Precious**, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Enhancing the electrocatalytic activity of phthalocyanines through finding the ideal combination of substituents in push-pull phthalocyanine-based systems.*

Supervisor: Distinguished Professor T Nyokong.

---

**NOVOKOZA, Yolanda**, BScHons (WSU), MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Prediction of mass spectra using an ab initio approach.*

Supervisor: Professor KA Lobb.

---

**NWAHARA, Nnamdi Ugochinyere**, BSc (Lesotho), BScHons, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Liposomal formulations of*

---

*Metallophthalocyanines-nanoparticle conjugates for hypoxic photodynamic therapy and photoelectrocatalysis.*

Supervisor: Distinguished Professor T Nyokong.

---

**OKEKE, Chiamaka Jessica**, BScHons (Lagos), MSc (Rhodes), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Falciain 2 and 3 as malarial drug targets: Deciphering the effects of missense mutations and identification of allosteric modulators via computational approaches.*

Supervisor: Professor O Tastan Bishop.

---

**OKPARA, Michael Obinna**, BTech (FUT), MSc (MED) (UCT), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Identification of novel therapeutic agents targeting kaposi's sarcoma-associated herpesvirus (kshv) lytic replication.*

Supervisor: Professor AL Edkins.

---

**OLADIPO, Hannah Oluwakemi**, BSc (Usmanu Danfodiyo), MIT (Ladoke Akintola), MSc (Northumbria) in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *HOP abundance affects nuclear pore components and the export of protein and RNA cargo.*

Supervisor: Professor AL Edkins.

---

**PARKINSON, Matthew Cameron**, MSc (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Movement ecology of a West African sciaenid fish, *Argyrosomus coronus*, in southern Angola.*

Supervisor: Professor WM Potts.

Co-supervisors: Professor AJ Booth and Professor A-R Childs.

---

**RAMMALA, Isabella Dineo**, BScHons (UFS), MSc (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: *Discovery and classification of compact objects in the MEERKAT galactic centre data.*

Supervisor: Professor A Karastergiou.

Co-supervisors: Professor I Heywood and Professor OM Smirnov.

---

**REID, Megan Kim**, MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *A native weevil and an exotic planthopper: investigating potential biological control agents for *Nymphaea mexicana zuccarini* (Nymphaeaceae) and its hybrids in South Africa.*

Supervisor: Professor JA Coetzee.

Co-supervisor: Distinguished Professor MP Hill.

---

**SALAMI, Sodeeq Aderotimi**, BSc (Kebbi State), MSc (Ilorin), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *From more sustainable isocyanide-based multicomponent reactions to spiro- heterocyclic compound synthesis.*

Supervisor: Professor RWM Krause.

Co-supervisor: Dr V Smith.

---

**SCHWARZ, Kelly**, BScHons (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Analysis of the role and regulation of HOP1a and HOP1b splice variants in cancer biology.*

Supervisor: Professor AL Edkins.

---

**SITHOLE, Yonela**, BSc (WSU), BScHons, MSc (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *A comprehensive review of the taxonomic diversity within the freshwater catfish genus *Parauchenoglanis* (Auchenoglanididae: Siluriformes).*

Supervisor: Dr A Chakona.

Co-supervisor: Dr EJW Vreven.

---

**SOY, Rodah Cheruto**, BEd (Egerton), MSc (Eldoret), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Porphyrinoid dyes for photodynamic anticancer and antimicrobial therapy treatments.*

Supervisor: Professor J Mack.

Co-supervisor: Distinguished Professor T Nyokong.

---

**TENDWA, Maureen Bilinga**, MSc (UWC), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *African population prevalent genetic variations of dihydropyrimidine dehydrogenase as the 5-fluorouracil cancer drug metabolizing enzyme: computational approaches towards pharmacogenomics studies.*

Supervisor: Professor O Tastan Bishop.

Co-supervisor: Dr T Musyoka.

---

**THAGANYANA, Golekamang Piet**, BScHons (NWU), MSc (UWC), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: *A statistical study of travelling ionospheric disturbances over the African-European and American sectors.* Supervisor:

Dr JB Habarulema (SANSa).

---

**TOWNER, Alison**, BScHons (North Wales), MSc (UCT) in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Spatiotemporal ecology and potential displacement of white sharks in southern Africa.*

Supervisor: Professor AJ Booth.

Co-supervisor: Dr M Smale.

---

**VAN STEENDEREN, Clarke Julian Mignon**, MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *A molecular investigation of stem-galling *Tetramesa Walker* (Hymenoptera: Eurytomidae) on African grasses: applications to biological control.*

Supervisor: Dr G Sutton.

Co-supervisor: Professor ID Paterson.

---

**VAZQUEZ MORAN, Chenelle Lesley**, MSc (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Economically important cephalopods of southern Angola, with a focus on the artisanal jig fishery.*

---

---

Supervisor: Professor WM Potts.  
Co-supervisors: Professor WHH Sauer and  
Professor MR Lipinski.

---

**VORSTER, Johannes Stephanus**, BScHons (Pretoria), MSc (Liverpool), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: *Developing an Evaluation Framework for Authentication Schemes: Using Grounded Theory applied to Standards to develop a framework for authentication scheme evaluation, with specific application to Graphical Password Authentication Schemes.*

---

Supervisor: Professor BVW Irwin.  
Co-supervisor: Dr R van Heerden (CSIR).

---

**WATSON, Ralph Gareth Andrew**, BAS (SAXION), MSc (UCT), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Co-occurrence of sympatric *Poroderma* species.*

---

Supervisor: Dr T Murray.  
Co-supervisors: Dr E Gennari (Oceans Research) and  
Professor P Cowley.

---

**WITTE, Andrew Dennis**, MSc (NMMU), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Development of a stock assessment model for abalone ranching in the Eastern Cape Province, South Africa.*

---

Supervisor: Professor PJ Britz.  
Co-supervisor: Dr P Steyn (NMU).

---