



UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG

PhD

Graduation Ceremony

The Great Hall

Tuesday, 07 July 2020
09:30



Examinations and Graduation Office

2nd Floor, Room 2021, Solomon Mahlangu House

Tel: 011 717 1280/1

www.wits.ac.za/graduations

A MESSAGE TO GRADUATES FROM THE CHANCELLOR



Congratulations to all the graduands! I know it takes hard work and focus to reach this point. I also know that you could not have achieved this on your own. So as I congratulate you, I also congratulate your parents and guardians for not only supporting you, but for creating an environment that allowed you to dream and achieve your dreams. Thank you to the lecturers who contributed to your success. Well done.

May this be the beginning of a life of continuous learning, investing in yourself, and investing in the communities that nurtured you. Nurture the relationships that you've formed and those that you will form as you journey through life. Umuntu umuntu ngabantu. Life is about collaboration with others.

Dream big, act consistently with integrity, self-respect and respect for others, and the universe will conspire to make you achieve your dream. A positive attitude and hard work will bring you closer to your dream. Use others' successes as your inspiration. Wits is full of those, from Nobel Prize Laureates to world leaders in different fields of society.

You have received a world class education. Use it to make a difference in other people's lives. Especially those that are less fortunate than yourself. We are a country with many needs, identify a role you can play to make a positive difference; you owe it to this country and people that invested in you.

Find your Purpose and Live it. Help Africa Rise!

Dr Judy Dlamini
Chancellor
Wits University

**There is no limit to what you can achieve,
if you put your mind and your best effort into it!**

A MESSAGE TO GRADUATES FROM THE VICE-CHANCELLOR AND PRINCIPAL



Dear Wits Graduate

Congratulations on successfully completing your academic programme at Wits and becoming a member of an elite group of graduates of this esteemed University who are movers and shakers in government, business, civil society and the international arena. Our more than 180 000 alumni are national and international leaders in their fields, prosperous business people, successful politicians, inspiring activists and formidable intellectuals.

Wits is a vibrant microcosm of South African society that occupies a special place in the hearts and minds of its alumni. Over the more than 97 years of its history, the University has steadily evolved into a globally competitive and nationally responsive institution that is a respected leader in research, teaching, learning and community engagement. This is a proud legacy of which you are now an integral part.

Wits is also renowned for its intellectual leadership and for nurturing critical thinkers, creative innovators, problem-posers and problem solvers. Your success has furthered our commitment to equipping the future generation of South Africans with the skills and determination that they will need to find innovative and sustainable solutions to the national and global challenges of today. We know that you will enter the next stage of your journey with a passion to bring positive changes to tomorrow.

Your success also means that you are part of the small percentage of students in South Africa who complete their degrees. About half of the students who enter the country's higher education system leave university without a qualification. In an attempt to address this national challenge, Wits has revitalised its academic support programmes and throughput capacity by establishing a teaching and learning academy for students at risk. To this end, we are providing professional retooling and support for our academics in order to improve the quality of their teaching.

As a Wits graduate, you will have had access to an educational experience unlike any other. You will have been exposed to a world-class academic programme and derived the benefits of our pioneering research in South Africa, our continent and the world. I want to encourage you to remain part of the Wits family by participating in our alumni programme and further advancing the reputation of your alma mater.

You would have been part of a social milieu that is engaged on the big issues of the day that enables robust engagement, and prioritises the fashioning of solutions. In the process, you would have learned not only the skills required by your profession, but also developed the soft human skills necessary to an active, engaged citizen of our diverse and cosmopolitan world.

A special thank you to your parents, guardians, spouses, partners and loved ones who have helped to make this day possible, sometimes at great cost. It is also appropriate to acknowledge your professors, tutors, mentors and everyone else who contributed to your success.

Best wishes for a very bright future.

Professor Adam Habib
Vice-Chancellor and Principal
Wits University

MESSAGE FROM

THE PRESIDENT OF CONVOCATION



There are a few defining moments in life – and it is without doubt that a PhD graduation is one of them!

As you leave this graduation hall, you leave with the prestigious honour of a grand title from one of the top universities on the African continent.

Today, you enter into a world of limitless possibilities, accessible only to a select group of people who have lived our University's motto: "Scientia et Labore" ("through knowledge and work"). May you meet all the challenges and opportunities that await with drive, pride, passion, innovation and positive-purpose.

While some of you are first time graduates of this university and others have already obtained degree's from Wits – this PhD cohort are united forever in association with a special group of individuals: the Convocation of Wits University. Convocation represents all the degreed graduates of Wits and forms a vital link between the University and the global community in which it operates. Membership to Convocation is free and serves as an official channel, allowing you, the members, to convey to the University management your views about the University. This membership comes with several unique privileges, which include nominating the Chancellor of the University. The Convocation has two executive members on the Wits Council and maintains other regular contact with the University, especially with the Alumni Relations Office, in order to ensure the voice of the Convocation is represented within The University.

There are now over 180 000 Wits alumni worldwide. Proudly diverse as we are, our shared experiences and memories of studying at Wits make for a very strong network indeed. So, in addition to congratulating you on your graduation, let me also welcome you to your lifelong relationship with Wits.

The distinction of our university is important to the prestige of our collective qualifications. We call upon you to nurture and enhance the value of the asset you have now acquired by promoting Wits' image, preserving our values and contributing towards our ongoing development, ensuring that we grow in stature as a globally competitive, proudly South African institution of higher learning.

Please connect and engage with us via Wits' multiple social media channels, or feel free to reach out to us via convocation@wits.ac.za

I would like to extend a warm welcome to you – you are now a Witsie for life!

Stacey-Lee Bolon
President of Convocation
Wits University

Convocation is a statutory body that includes all graduates of the University. Convocation is the largest constituency of the University (since the founding of the University in 1922, graduates number about 160 000). Its statutory mandate is to "... discuss and state its opinion upon any matters relating to the University including matters referred to it by the Council" and allows for the views of graduates to be represented at the highest levels of governance of the University.

ORDER OF PROCEDURE

Tuesday, 07 July 2020 | 09:30

The audience will rise as the academic procession enters the hall and will remain standing until the Chancellor is in place

The Wits Choir will perform

The Chancellor will constitute the congregation

The Chancellor will welcome the graduands

Address to the congregation

Conferment of degrees

The President of Convocation will address the graduates

The Chancellor will dissolve the congregation

The audience will stand while Ihele is played

Members of the audience are requested to stand while the academic procession leaves the hall and not to leave the hall before the end of the ceremony.

IMPORTANT NOTICE

In the event of load-shedding or power cuts, the Great Hall may become totally dark until the generator comes into operation.

FACULTY OF

COMMERCE, LAW AND MANAGEMENT

DEAN: PROFESSOR I VALODIA

BCom (Unisa) BCom Hons (Natal) MSc (Lancaster) DEcon (KwaZulu-Natal)

Doctor of Philosophy

BREYTENBACH, Adele

Economics

THESIS: The economics of peace: institutional and policy reform for sustainable peace and development in Africa's great lakes region

The candidate has made a notable contribution to the sub-discipline of peace economics in her study of institutional and economic policy reform in Africa's Great Lakes region. Her research addresses the issue pertaining to the risks post-conflict countries encounter that prevent them from reaching a sustainable level of peace and development.

Supervisors: Professor M Padayachee

DABULA, Nandi

Marketing

THESIS: Market, psychological and social factors influencing blood donation: a case of S.A. millennials

Three theories were integrated to examine how social media communication impacted millennials' socio-psychological drivers of blood donation attitude and intention. Data collected from 650 millennials revealed that even for a life-saving product like blood, social media marketing can aid social marketers' efforts to build attitudes and propensity to act.

Supervisors: Professor H Duh and Dr N Chiliya

DA SILVA DE FIGUEIREDO-SABINO, Yolanda Maria

Wits School of Governance

THESIS: Managing VAT non-compliance: a case study of the Mozambique Tax Authority

This thesis examines how current tax-compliance approaches have had a limited impact on VAT compliance in Mozambique. The main finding is that "cause-driven" enforcement strategies were more effective in discouraging non-compliance. In spite of a high degree of collusion by different actors, the conclusion is that a systemic perspective is needed to improve VAT compliance.

Supervisor: Dr H Zandamela

DZINGIRAI, Canicio

Economics

THESIS: Essays on banking sector competition and efficiency: the case of selected African Countries

Banks play an important role in stimulating economic growth. The level of competition and efficiency in the banking sector determine their effectiveness. This thesis assesses the extent to which African banking sectors are efficient and competitive. It also looks at the casual relationship between banking sector competition and efficiency.

Supervisor: Dr T Gwatidzo

HOVE, Precious

Wits School of Governance

THESIS: The strategic role of knowledge management in the growth and sustainability of Small, Micro and Medium Enterprises (SMMEs) in Zimbabwe

The study investigated the ways in which Small, Micro and Medium Enterprises (SMMEs) formulate strategies and explored the knowledge infrastructure capabilities of SMMEs in Mashonaland East Province in Zimbabwe. The research stressed the importance of knowledge infrastructure for SMMEs and showed that knowledge management plays a significant role in SMME growth and sustainability.

Supervisor: Professor P Pillay

KASAI, Stanford

Business Science

THESIS: The influence of supplier relationship quality in South African municipalities' service delivery performance

The study explored the impact of relationship quality on service delivery performance in the South African municipal sector. The researcher adopted a mixed method approach to data. The South African municipalities were sampled. The data was analysed using SPSS and AMOS statistical software. The findings revealed that the supply chain management practices has a positive influence on relationship quality which in turn has a significant influence on the municipalities' service delivery performance. From the findings it is clear that the quality of the relational interactions between the municipalities and their suppliers has great impact on the quality of service delivery performance.

Supervisor: Dr N Chilya

KASEKE, Paul Chidochashe

Law

THESIS: Towards good governance: interpreting the Right to Administrative Justice in the Zimbabwean Constitution

In 2013, Zimbabwe adopted a new constitution that replaced the 'Lancaster' Constitution adopted at independence in 1980. The 2013 Constitution introduced a right to administrative justice. This thesis focuses on how courts should interpret the right to administrative justice in a manner that promotes good governance and administration. Good governance in the Zimbabwean Constitution bears a specific meaning that encompasses social justice, economic stability and the orderly transfer of power during elections. The thesis suggests how courts can interpret the right in a way that supports the building of a progressive constitutional democracy in Zimbabwe. In doing so, this thesis formulates and postulates a theory of substantive fairness that can be adopted by Zimbabwean courts.

Supervisors: Dr O Adeleke and Professor V Bronstein

LUIMES, Wilhelmina Henrietta

Wits School of Governance

THESIS: Assessing leadership intention and influence upon a country's social, political and economic development trajectory

The study applied critical discourse analysis upon the language of leadership with a history of constructive outcomes, comparing it with the language usage of destructive leaders in Russia, South Africa and Nigeria. Its insights deepen our knowledge of the interplay between leadership intention, power and citizen social functioning that shapes the history of a community, country and region.

Supervisor: Dr A Van Nieuwkerk

MAKONI, Eric Nyembezi

Law

THESIS: Law spatial planning and the making of South African cities

This thesis examines the relation of law and spatial planning in the making of contemporary South African cities, using the city of Johannesburg as primary unit of analysis. Anchored in the theoretical concepts of "lawscape" and the "right to the city", the thesis illustrates law and planning's deployment in the creation of racially fragmented and unjust cities. It then illustrates and evaluates the extent to which law and planning have managed to assume new roles of creating South African cities defined by spatial justice and socio-economic inclusivity.

Supervisor: Professor M Pieterse

MANDA, More Ickson

Information Systems

THESIS: Towards 'smart governance' through a multidisciplinary approach to e-government systems integration, interoperability and information sharing: a case of the Labour Market Intelligence Project in South Africa

The candidate's thesis investigated institutional barriers to e-government information systems integration, interoperability and information sharing in South Africa. His study proposes two frameworks. First, it proposes the Integration, Interoperability and Information Sharing Complexity Framework for understanding the complexity and some of the barriers to integration, interoperability and information sharing. It also proposes the Power, Politics and Information Systems Institutionalisation Framework which highlights the relationship between the circuits of power, institutional isomorphism and the institutionalisation process in institutions.

Supervisor: Professor J Backhouse

MBULAWA, Abednego Simphiwe

Wits School of Governance

THESIS: Developing a service delivery performance index for South African local government

This thesis explores the links between service delivery performance and municipal sustainability. It focuses on the relationship between productive efficiency and financial sustainability within South African local government. As a solution it proposes a performance measurement index consisting of financial, human resources, and service delivery components.

Supervisor: Professor P Pillay

MBUYISA, Barbara

Wits School of Governance

THESIS: Micro-Finance institutions as tools for the development of informal furniture manufacturers in Zimbabwe

The study examines why microfinance institutions fail to be sustainable sources of finance for small businesses using a sample of furniture manufacturers in Bulawayo. The research suggests the development of an integrated model for microfinance in Zimbabwe to ensure greater sustainability of small businesses.

Supervisor: Professor P Pillay

MGXAJI, Bongekile

Business Science

THESIS: The impact of social media communication on business reputation in the investment management industry in South Africa

This study investigated the effects of social media communication on business reputation. By means of a quantitative approach, surveys were distributed amongst investment professionals in South Africa. The results contribute to marketing practitioners in the investment management industry with an understanding of tactics that can be used to influence business reputation through social media communications.

Supervisor: Dr M Venter

MOGOMOTSI, Goemeone Emmanuel Judah

Law

THESIS: An analysis of Botswana's anti-money laundering regime: towards compliance with international standards

For a thesis which examines the compliance of Botswana's anti-money laundering regulatory framework against international standards and which makes recommendations for legislative reforms.

Supervisor: Dr H Kawadza

MOYO, Funa

Wits School of Governance

THESIS: The contribution of artisanal gold mining to rural households, livelihoods in Southern Matabeleland Zimbabwe

The thesis shows how artisanal gold miners utilise their social networks to access mines to ensure rural livelihoods. The thesis concludes that resource-based networks and networks of political influence (tribal and ethnic) constitute the social capital that enables communities to negotiate mining rights to ensure household survival in the rural areas.

Supervisor: Dr H Zandamela

MUNENE, Anthony Wambugu

Law

THESIS: Realising the right to development in Kenya under the 2010 Constitution through poverty alleviation, anti-corruption and public participation interventions

The thesis provides a comprehensive examination of the right to development (RTD) in Kenya under the 2010 Constitution, which is currently an understudied field. By weaving through Kenya's international and domestic law obligations, as supported by relevant treaties, legislation and case law, the study advocates for realisation of RTD in Kenya through interventions that address Kenya's trial challenge of poverty, corruption and public participation in decision-making processes.

Supervisor: Professor L Chenwi

MUNTHALI, Julius Kadambo

Wits School of Governance

THESIS: Decentralization and challenges of corruption in implementation of community projects in Malawi

Scholarly governance literature promotes the positive outcomes of decentralization as citizens at local level are best able to influence appropriate policies. This thesis demonstrates that decentralization in Malawi had unintended consequences as it enabled local level corruption in the distribution of agricultural subsidies to small farmers.

Supervisor: Dr I Sarakinsky

MUPAMBWA, Patrick

Business Science

THESIS: Predictors of e-Marketing adoption by Zimbabwean churches

The study sought to investigate the predictors of e-Marketing adoption by Zimbabwean churches. A quantitative study was conducted. The study results indicate that marketing orientation, marketing innovation, church youth marketing, competitive intensity and dynamic marketing capabilities have a significant influence on e-marketing orientation amongst Zimbabwean churches. It is recommended that churches include digital marketing channels as part of their marketing communication mix elements to spread the Good News and making disciples of all the nations as commanded by Jesus Christ.

Supervisors: Professor R Chinomona and Dr N Chilya

MUTAMBA, Jeremiah

Graduate School of Business Administration

THESIS: A framework for the turnaround of State-Owned Companies in South Africa
State-Owned Companies (SOCs) are pivotal for the growth of many economies, including South Africa. However, several South African SOCs are distressed, requiring pragmatic and responsive turnaround strategies. Following a qualitative approach, this thesis investigates key drivers for the turnaround of distressed South African SOCs. The study provides two main contributions: a set of 25 drivers and a SOC turnaround framework that guides policymakers and practitioners. The framework underscores management of power-governance dynamics among leadership, ensuring strategic alignment for successful turnaround.

Supervisor: Dr D Heil

MUTIMUDYE, Given

Wits School of Governance

THESIS: Economic governance challenges affecting the formulation of National Economic development policies in Zimbabwe

This research involves the analysis of a number of factors that combine to prevent good governance in economic policy making in Zimbabwe including institutional capacity, state capture, violence and political patronage. The thesis concludes that the failure to change from 'liberal politics' to 'development politics' has negatively affected economic policy making.

Supervisor: Professor P Pillay

NKUNA, Isaac Simon

Wits School of Governance

THESIS: A critical analysis of integrated development planning in relation to sustainable local economic development, livelihoods and poverty alleviation: a case study of Mopani District Municipality

The study examines the linkages between IDP and LED in five local municipalities in the Mopani DM. The research highlights the widespread ineffectiveness of IDP and questions whether the role and responsibilities allocated to municipalities are appropriate given numerous developmental failures.

Supervisor: Professor I Valodia

OGANA, Litha Musyimi Mumbua

Wits School of Governance

THESIS: Dynamics of aid evaporation in Overseas Development Assistance (ODA): a Kenyan case study of the Comprehensive African Agricultural Development Program (CAADP)

This study finds that the challenge of aid ineffectiveness persists in Africa. The research showed that while there were demand side (African) challenges such as poor governance, corruption, and lack of strong institutions, there were also supply (donor) side challenges such as over-reliance on their own ODA governance frameworks and delivery mechanisms, the entrenchment of bilateral interests in ODA, and specific geopolitical interests.

Supervisor: Dr H Zandamela

OKUNGU, Denis Ogwel

(AERC)

THESIS: Mutual funds performance: evidence from emerging African markets

"The study examined the performance of actively managed equity mutual funds in emerging African markets. Findings suggest that some Africa's actively managed funds could outperform the market benchmarks. The study contributes significantly to the development of policies necessary for the development of domestic equity markets."

Supervisor: Professor O Kodongo

PAMACHECHE, Rukudzo

Business Science

THESIS: Predictors and behavioural outcome of personal loyalty dimensions to Johannesburg hair care service providers

The drivers and outcomes of commercial friendship between hairstylists and clients were examined. Quantitative testing of a model derived from three models showed drivers were service customisation, reliability, trustworthiness and clients' satisfaction. Outcomes were four dimensions of personal loyalty rarely studied. Behavioural personal loyalty drove willingness to pay premium price.

Supervisor: Professor H Duh

POPOOLA, Ahmed Babatunde

Graduate School of Business Administration

THESIS: Opportunities and constraints of Government support programmes on access to finance for SMEs: Cross-Country evidence from Africa

This thesis examines the effectiveness of government programs aimed at fostering access to finance for SMEs in Africa. Results show that impacts of indirect government financing are significantly higher than impacts of direct government funding support, and that the former often increases SME failure rate because it influences SMEs to take on unnecessary risk.

Supervisor: Professor K Ojah

QUAYE, Emmanuel Ato Silva

Graduate School of Business Administration

THESIS: Xenocentrism, cosmopolitanism and consumer behaviour in emerging market: important antecedents and consequences

This research advances our understanding of foreign brand preferences in emerging markets, making several novel contributions to the marketing literature that are of conceptual, methodological, and practical importance. A new consumer xenocentrism scale is proposed and assessed rigorously. Study participants include 1,177 South African, Kenyan and Ghanaian consumers. The study concludes that personal and domain-specific values predict foreign vs local product preference in the three countries.

Supervisor: Professor S Burgess

TOTOWA, Jacques

Graduate School of Business Administration

THESIS: The value relevance of discretionary and non-discretionary disclosures in financial reports: does impression management have an impact on firm value?

The candidate investigated impression management in Chairman's letter issued with annual financial reports. He found that managers use predominantly optimistic language to create impression about their companies. However, this optimism is reduced by firm performance, firm debt and some internal governance mechanisms. Firm institutional environment influences investors' perception of impression management. For example, investors in developed countries are likely to be influenced by the tone of Chairman's letter while in emerging markets, investors prefer companies' fundamentals to make economic decisions.

Supervisor: Dr T Mokoaleli-Mokoteli

UMANAH, Tebogo Elizabeth

Wits School of Governance

THESIS: Leadership in the South African Police Service: a case study of Gauteng Province

Using the leadership lens and frameworks, this study interrogates the challenge in the South African Police Service with Gauteng Province as its case. Specifically what are the reasons underlying escalating policeable crime in the Province and the constraints to arresting it. Theoretical and empirical interrogation points to prioritising (i.) strategy formulation and innovation, (ii.) reinstatement of structures and systems, and (iii.) inculcation of police culture.

Supervisor: Dr K Wotela

WILSON, Stuart David James

Law

THESIS: The law of dispossession: property law, power and social change

In advancing an agent-centered theory of law and social change, this thesis examines the impact of litigation involving sections 25 and 26 of the South African Constitution on the spaces in which social agents negotiate and dispute the possession, use and distribution of property.

Supervisor: Professor M Pieterse

FACULTY OF

ENGINEERING AND THE BUILT ENVIRONMENT

DEAN: PROFESSOR IR JANDRELL

BSc(Eng) GDE PhD (Witwatersrand) IntPE(SA) PrEng FSAAE FSAIEE SMIEEE

Doctor of Philosophy

ABDUSALAM, Jibril

School of Chemical and Metallurgical Engineering

THESIS: Development of activated carbons from South African coal waste for application in natural gas storage.

The candidate research focused on the synthesis of large surface area activated carbons from different South Africa discard coals for application in natural gas storage. He developed, an optimum route for valorisation of these discards into activated carbons, and likewise designed a sustainable solution for natural gas storage that could contribute to accessible and affordable clean energy in South Africa.

Supervisors: Professor J Mulopo and Dr S Bada

ALKEMA, Peter John

School of Electrical and Information Engineering

THESIS: A sentiment scale for agile team environments in the large organisation: a grounded theory

Management practices in large organisations significantly affect the application of Agile software development principles. The candidate made outstanding use of the Grounded Theory scientific research methodology to develop a sentiment scale to explain an Agile team's response to human factors within their environment. This new knowledge is particularly important within what is being called the fourth industrial revolution.

Supervisors: Professor K Nixon, Professor A Soicher and Dr S Levitt

APUA, Momboyo Clotilde

School of Chemical and Metallurgical Engineering

THESIS: Acid mine drainage treatment by coagulation process using a synthesized sulphate-based coal fly ash coagulant.

The candidate investigated the synthesis of a composite coagulant containing polymeric sulphates of iron, aluminium, silica, magnesium, and calcium from coal fly ash. Thereafter, the study assessed the performance of the produced composite coagulant in the treatment of acid mine drainage (AMD). A comparison of the conventional iron and aluminium sulphate coagulants showed that the produced composite coagulant performed better than conventional coagulants in terms of removal of magnesium, calcium, silica, zinc, and total dissolved solids. These research findings are a demonstration of new application of coal fly ash which can be extended to the treatment of other wastewaters. These are outstanding results which have resulted into two conference papers and two other papers that have been accepted for publication in international journals.

Supervisor: Professor G Simate

BESTER, Marnus

School of Mining Engineering

THESIS: A risk-based methodology to improve the definition of geotechnical design sectors in slope design

The candidate's research dealt with the optimisation of rock slopes in open pit mines. Such slopes often contain variable, structurally-controlled and anisotropic geological materials, in which it is difficult to determine shapes and sizes of slope design sectors. Mr Bester used discrete fracture network and synthetic rock mass approaches in addressing the problem. His research demonstrated the spatial variability in the apparent dip of geological features using 3D modelling. This allowed for focused data acquisition, providing practical design parameters for optimised slope design and early risk mitigation that has been shown to unlock substantial value for the mine: the slope optimisation that resulted from Mr Bester's research was the main contributor to an increase in ore reserve life of one year, corresponding with 50 million tonnes of additional ore, and with a value of 10 billion rand.

Supervisor: Professor T Stacey

COX, Mitchell Arij

School of Electrical and Information Engineering

THESIS: Improving the resilience of free-space optical links using structured modes of light
Structured patterns of light offer a path to increasing the bandwidth of optical communication but unfortunately are easily distorted in flight. The candidate studied the resilience of various structured light patterns in atmospheric turbulence, resolved a standing debate as to the resilience of certain classes of light, and outlined a path to harnessing the distortion to our advantage through a new idea, modal diversity

Supervisors: Professor L Cheng and Professor A Forbes

FARIRAI, Fortunata

School of Chemical and Metallurgical Engineering

THESIS: Production of Nano Silicon particles from sugar cane Bagasse Ash for Solar Cell Application

In this study, potential of producing silicon nanoparticles from sugarcane bagasse ash for application in solar cells was investigated. A proof of concept for the application of nano-silicon particles in solar cells has been established in this study. Findings of the study have been communicated to colleagues in the field via 2 peer-reviewed journal articles, 1 book chapter and 2 conference proceedings.

Supervisor: Professor M Daramola

HERMANUS, Mavis Ann

School of Mining Engineering

THESIS: The Mine Health and Safety Act - Success of Failure? A Critical Assessment of the Aetiology and Impact of the Act of 1996 with reference to Context, Tripartism and Risk Management

This research assessed the impact of the MSHA in South Africa. It relates directly to the average mineworker, to whom the candidate dedicated her work. While the health and safety indicators show an improvement over time, there is still more to be done before reaching the goal of no harm. The findings are substantive and relevant. Not only South Africa, but also for other developing countries.

Supervisor: Professor F Cawood

LI, Zhiwei

School of Chemical and Metallurgical Engineering

THESIS: A conceptual analysis for resource optimization in variable time multipurpose batch plants

This work led to the development of a novel technique for synthesis, design and optimization in resource constrained multipurpose batch facilities. The latter rank among the most combinatorially complex chemical plants. The key novelty is the match ranking matrix that allows engineering insights in defining the solution space.

Supervisor: Professor T Majazi

MAINA, Miriam Muthoni

School of Architecture and Planning

THESIS: Influence of Spatial Planning on Urban Space Economies: two case studies from Johannesburg, South Africa

This thesis explores the potential of planning to shape the urban space economy using case studies from Sandton and Soweto in Johannesburg. It highlights the complexity of processes with an assemblage of actors mediating competing visions, resolving disjunctures and adapting to continually changing realities.

Supervisors: Professor P Harrison and Professor A Todes

MATHABA, Machodi Jeremia

School of Chemical and Metallurgical Engineering

THESIS: Synthesis and performance evaluation of polyethersulphone membrane infused with chitosan and coated with polyamide layer for acid mine drainage treatment

This study investigated synthesis and performance evaluation of nanocomposite polyethersulphone/polyamide membrane infused with chitosan for acid mine drainage treatment. Findings of the study were communicated to colleagues in the field through 3 international peer-reviewed journal articles (with one published in Nature Scientific Reports), and a book chapter.

Supervisor: Professor M Daramola

MUZONDO, Fate Tharullo

School of Civil and Environmental Engineering

THESIS: The limitations of the South African procurement policies and practices in relation to contractor selection criteria: The importance of technical qualifications and experience of established construction companies

The research demonstrated the importance of technical competence to contractor success, in particular prior qualifications and experience. The study recommended that technical qualifications and experience be at the center of South African procurement policies, contractor selection and construction industry development programmes.

Supervisor: Professor R McCutcheon

SUNJKA, Bernadette Patricia

School of Mechanical, Industrial and Aeronautical Engineering

THESIS: The status of Supply Chain Risk Management in selected manufacturing Small and Medium Enterprises (SMEs) in South Africa

This thesis presents for the first time a more holistic understanding of how Supply Chain Risk is managed in SMEs, from a holistic approach within the broader context of risk theory and risk management. A significant finding is that SMEs possess risk management capabilities that correspond to formalised risk management procedures of their counterpart in large organisations.

Supervisor: Dr B Emwanu

YORO, Kelvin Odafe

School of Chemical and Metallurgical Engineering

THESIS: Integration and Synthesis of Heat and Mass Exchange Networks for CO₂ Capture from Power Plants

This study investigated the synthesis and integration of heat and mass exchanger networks to reduce energy consumption and ensure waste minimization during absorptive and adsorptive CO₂ capture in coal-fired power plants using process synthesis and thermodynamically-driven methodologies. Findings of the study have been communicated to colleagues in the field via 4 peer-reviewed journal articles, 3 conference proceedings, and 2 book chapters.

Supervisor: Professor M Daramola

FACULTY OF HUMANITIES

DEAN: PROFESSOR G STEVENS

BA (Cape Town) BA Psych (Hons) MPsych (Western Cape) DLitt et Phil (Unisa)

Doctor of Philosophy

AKANJI, Waidi Adewale

French

THESIS: Écocritique postcoloniale et la notion d'invisibilité dans quatre romans francophones d'Afrique de l'Ouest

(Postcolonial Eco-criticism and the Notion of Invisibility in Four Francophone Novels from West Africa)

The thesis, situated in the field of African literature, examines four West African novels from an ecocritical, postcolonial framework. It proposes a rethinking of the notion of invisibility in relation to the post-colonial imaginaries and the degradation of the environment.

Supervisors: Dr P Moji and Dr F Horne

AKINYEMI, Olutosin Solomon

Education

THESIS: Exploring the Development of Pre-service Teachers' Topic Specific PCK and its Influence on Learner Outcomes

This study investigated the influence of student teachers' acquired topic specific PCK (TSPCK) in Organic Chemistry on learner outcomes, using a mixed method research design. The findings indicated a conclusive significant, direct and positive correlation, new in the literature. Implications for transforming science learner performance in SA Schools are huge.

Supervisor: Mrs M Mavhunga

ANDREWS, Douglas Peter Spencer

Education

THESIS: The affordances and constraints to inclusive teaching in four South African schools: a cultural historical activity theory perspective

Douglas Andrews uses Cultural Historical Activity Theory to investigate what enables and constrains inclusive teaching in South African schools. The findings could influence school transformation to realise quality education for all. The examiners said the thesis was 'innovative', 'outstanding' and 'makes a great contribution to knowledge about inclusive education.'

Supervisors: Dr E Walton and Professor R Osman

ANOLUE, Francis Chukwunwike

African Literature

THESIS: Writing Nigeria: time and nature in the poetry of Niyi Osundare

This thesis integrates ecocriticism and temporality in an interrogation of the poetic corpus of the Nigerian writer Niyi Osundare. Its frame is woven from Bakhtinian notions of time in literature, and various strands of ecocritical theory. It uses animist theory as a means of understanding the Yoruba world which Osundare foregrounds, in its temporal and environmental dimensions. This includes the role of spiritual forces in the lives of humans, the origin of the earth and the responsibility to preserve it. Through lenses provided by Osundare, the thesis looks at Nigeria as a specific site in which the workings of the Anthropocene and the Capitalocene are manifest. By doing so, it throws inequality, strife, and environmental degradation into relief. In spite of this, Anolue closes on a note of critical optimism which rests on Osundare's conviction that people can rise to the duty of salvaging the earth: 'Our earth will not die.'

Supervisor: Dr D Ojwang

DANSO, Sakiywa

Education

THESIS: Exploring students' academic achievements in electricity and magnetism through learning styles and learning style-based instructional strategies in Mthatha high schools

The candidate's research was conducted in rural settings in Eastern Cape. One of the most important findings was that learners' cultural background contributes to their learning disposition. The study included an intervention and inspired the design of an NRF funded project in rural Mpumalanga.

Supervisor: Dr E Mushayikwa

DE GRUCHY, Thea Siphokazi

Migration and Displacement

THESIS: The struggle over ideas': investigating how policy processes affect the health and wellbeing of migrant farm workers in Vhembe District, South Africa

The candidate's thesis provides a novel and necessary contribution to the understanding of migration and health in South Africa by offering a new conceptual approach for understanding policy processes within a middle-income country context. With relevance for both the Southern African region and globally, the study shows how current policy responses undermine efforts to meet global health targets - including Universal Health Coverage; and provides direction for the development of a contextually-relevant research and advocacy agenda to support much-needed efforts to improve health for all.

Supervisor: Dr J Vearey

DE HARDE, Laura

History of Art

THESIS: Elizabeth Goodall: a quiet contribution to rock art research in Southern Africa

The candidate has immersed herself in a lesser known archive of copies of rock paintings produced by the artist-researcher Elizabeth Goodall in Southern Rhodesia (now Zimbabwe) from the 1930s through 1960s. A practising artist herself, the candidate presents a fine-grained art-historical reading of the evolving methods, fieldwork and creative practices that frame processes of rock art reproduction and serve to structure in hidden ways how the art is interpreted. The candidate's careful excavation of Goodall's archive in Zimbabwe and at the Frobenius Institute in Frankfurt elaborates on some of the hidden processes that lie beneath the rock art reproductions that circulate in scholarly and popular contexts. Her study includes a comparative analysis of Goodall's years of research and copying of three prominent rock art sites in Zimbabwe alongside the partially overlapping work of the artist Walter Battiss, and an evaluation of the paradigm-setting and explicitly scientific copying practice of the Harrismith Programme under the direction of the eminent Professor Emeritus David Lewis-Williams. She makes a convincing case for the value of a 'quieter' kind of scholarship achieved by Goodall, operating beneath the dominant narratives of rock art interpretation, and through a sensitive creative engagement with the art on the rocks.

Supervisors: Dr J Wintjes and Dr J Weintraub-Hooper

DEWA, Alton

Education

THESIS: Stocktaking to Support Information and Communication Technology Integration into Mathematics Teaching in Initial Teacher Education

The study used six constructs of Activity Theory model to identify activities and enablers needed for teaching Mathematics with ICTs to pre-service teachers in Initial Teacher Training Institutions. As a result, the study developed a Transformed Activity Theory (TAT) model to capacitate mathematics education lecturers to be digitally competent.

Supervisors: Dr R Dlamini and Mrs N Ndlovu

HIGSON-SMITH, Robert Craig

Psychology

THESIS: Building a contextually relevant model to guide torture rehabilitation in Sub-Saharan Africa

Using case file review and client and counsellor interviews, Craig Higson-Smith developed an in-depth analysis of problems related to counselling torture survivors in sub-Saharan Africa. He argued that existing best practice models developed in high income countries fail to consider key contextual variables including complicated bereavement and continuous traumatic stress. Higson-Smith proposes a modular intervention model applicable to torture survivors in sub-Saharan Africa, and potentially in other Low and Middle Income Countries.

Supervisor: Prof G Eagle

JANSEN, Candice Donnah

History of Art

THESIS: Coloured black: The Life and Works of South African Photographers: Ernest Cole and Cedric Nunn

This thesis undertakes a sustained analysis of the life and works of South African photographers Ernest Cole and Cedric Nunn, who were both working during the apartheid era. She explores the complexity of the racial category of Coloured through its articulation in both of these men's lives as well as in their large and influential bodies of work. She reads for the politics of family and domesticity, including for the figure of the domestic worker so prominent in their work, specifically in their photographic collections House of Bondage and Blood Relatives. Coloured Black revisits the terms of race and photographic history in the afterlife of apartheid. In particular, it explored how 'coloured identities' could be better understood through their relationship to Blackness, rather than through their proximity to whiteness, or their often allegorical usage as 'standing in for' racial mixedness. Jansen offers a superb reading of the photographs themselves, revealing the exceptional quality of their ways seeing, insodoing showing us the terms on which they might be revisited and rethought today.

Supervisor: Professor S Nuttall

KOALI, Seeiso Jonas

Philosophy

THESIS: Deontology, Ubuntu and Doctor-Patient Relationship

In his dissertation, Seeiso Koali defends an Ubuntu moral-account as a more plausible ground for the doctor-patient relationship (DPR) and as accounting for reasons, interests and considerations in the DPR compared to deontology moral-account. The dissertation was highly praised by the examiners and is expected to lead to some publications.

Supervisor: Prof E Etieyibo

KOBOYATAU, Annah

Education

THESIS: Exploring service delivery in the Botswana basic education sector: a case of one education district

This study explored the participants' conceptualisation, practices and experiences of service delivery in one education district in Botswana. The findings suggest better interaction between policy-makers and implementers, capacity building of employees to develop skills and competencies to enhance service delivery, policy implementation, continuous leadership development and performance.

Supervisor: Dr S Mthiyane

LIGETI, Lukas

Musicology

THESIS: Hand in hand into the unknown: The potential of experimental intercultural collaboration in African music

In his work as composer, improvising musician and intercultural collaborator, the candidate forges new paths in the realm of experimental intercultural music in West Africa. With pragmatic and personable interactions with various indigenous groups of musicians, experimental ensembles emerged, evolved and created highly original genres of new intercultural and contemporary soundscapes; within forms and styles that defy categorization. This doctoral study documents this candidate's selected projects in Africa, which found their voice in live performances and on CD and Video recordings. The candidate's extensive research, analysis and synthesis in African music influenced his own aesthetic and approach in several of the original compositions found in his accompanying Portfolio of Compositions, a substantial creative part of his PhD submission. The candidate's research and artistic creativity in intercultural experimental music in Africa is a valuable resource and worthy contribution to indigenous artistic knowledge on the African Continent.

Supervisor: Professor J Zaidel-Rudolph

MACHINYA, Johannes

Industrial Sociology

THESIS: The Life and Labour of 'Illegal' and Deportable People: Undocumented Zimbabwean Migrants Living and Working in Witbank, South Africa

In his rich and detailed study of undocumented migrant workers from Zimbabwe to the border town of Witbank in South Africa, the candidate seeks to understand the everyday experiences of migration. The thesis shows how the ever-present possibility of deportation shapes an effective and temporal economy of dread in migrant workers' everyday lives, and how undocumented migrants in turn adapt and respond to their being made exploitable and precarious. Organised around the existential and juridical condition of 'illegality', the thesis explores a range of migrant experiences, including employment and work relations, sociality and solidarity, performances of visibility and invisibility, negotiation of borders and papers, and relations with the 'state' in its forms of presence and absence. Attentive to nuances in language and shifting relationships, this compelling study makes important contributions to scholarship around undocumented migrants, immigration regimes and ethnographic research.

Supervisors: Professor B Kenny and Dr S Ally

MAJA, Botshabelo Isaac

Education

THESIS: South African black urban youth capacity to aspire

This thesis examines black South African urban youth's capacity to aspire. The thesis is informed by the role that 'maps' and 'navigational tools' play in shaping young people's aspirational capacity, as conceptualised by Arjun Appadurai (2004). The study is in the main a qualitative study, utilising narrative enquiry involving ten case studies of youth in Soweto and Pretoria East. What made this study unique is that it (1) extends the analytics around the theory of aspirational capacity and (2) provides a comparative class and gender analysis. The enduring contribution of this work is a new conceptual framework which the candidate refers to as OATS - Objects, Agency, Tools, and Spaces

Supervisor: Prof B Fleisch

MANZUNZU, Nomatter

Education

THESIS: Early childhood development teachers' understandings of indigenous knowledge and how they incorporate it in their pedagogical practices.

This qualitative study explored ECD teachers' understandings of indigenous knowledge and the implementation thereof. Findings revealed that the implementation of IK is fraught with difficulties which are fuelled by western ECD approaches, tensions between playful pedagogical and formal ECD approaches and teachers' lack of agency in promoting appropriate ECD pedagogies in the classroom.

Supervisor: Ms L Excell

MAPANZURE, Rangarirayi

African Literature

THESIS: Writing Dictatorship, Rewriting African Writing: Mythology, Temporality and Power

This study critically examines the paradoxes of power in the African dictator text focusing on how African writers, such as Bulawayo, Kourouma, Ngugi, Soyinka, Tansi and Tuma re-interpret and re-imagine postcolonial identities, time, space and authority in a globalised terrain. It unmask the collusion, tension and entanglement of myths, power and temporality, while demonstrating how content, literary form, views, attitudes and meaning are simultaneously entrenched and destabilised. It argues that the dictator text problematizes the literary representation of the performance of dictatorial power as it reinforces, perpetuates and destabilises age-old, but persistent stereotypical notions of an exotic 'dark continent'. What emerges in the study is that the dictator text continues to be an arena where African identities and experiences are vigorously interrogated, re-interpreted and re-imagined as African writers search for new and innovative strategies of representing the perennially confounding African postcolonial condition.

Supervisor: Dr D Ojwang

MARAIS, Andrea

Psychology

THESIS: Developing typologies to use as an ecopsychological framework for understanding the relationship that people have with the biosphere in South Africa.

This thesis looked at uncovering typologies of people in their relationship with nature. Using a mixed-method approach, the candidate delved deep into the psychosocial reasoning behind each emergent type as they grappled with how to interact with nature. As one of the examiners noted, the thesis was 'methodologically innovative, theoretically rich and undoubtedly advances ecopsychological research on the human-nature nexus'. Or in the words of another examiner 'I'm sure I will think about this work for a long time to come and look forward to seeing elements of it in the published literature'.

Supervisor: Professor A Thatcher

MARTINS, Thabo Paul

African Languages and Linguistics

THESIS: The communicative strategies, the significance, the content and the role of the performance of mangae a makoloane a Basotho (Basotho boy initiates music)

"The thesis is contextualized within African Indigenous Knowledge Systems and Ethnomusicology. It highlights the importance of Basotho initiation and the lessons taught to boy initiates about the meaning of manhood and the responsibilities that comes with that. The songs discussed in the thesis are a response to that cultural ritual which is also a coming-of-age ceremony to boy initiates"

Supervisor: Dr E Zungu

MTHEMBU, Sithembiso Goodwill

Education

THESIS: Exploring servant leadership in multiple-deprived rural contexts: a multiple case study of four schools in KwaZulu-Natal

This study explored the participants' conceptualisations, practices and challenges of servant leadership in multiple-deprived rural school contexts. Surprisingly, a myriad of unprofessional behaviours impacted negatively on learner performance. Further, this study extended servant leadership domains by adding new traits like social compact, administration of education law, going beyond the call of duty and accountability and consequence management.

Supervisor: Dr S Mthiyane

MUSHANGAI, Dandira

Education

THESIS: Exploring challenges in the interaction of forestry-related institutions in the employment of R&D in the South African forestry sector

This thesis skilfully examines the relationship between the research and development (R&D) system and the forestry sector in South Africa. It provides one of the best examples of a 'triple helix' social compact in society where the state, business and higher education have cooperated extensively to build a global leader.

Supervisors: Dr A Kraak and Professor S Schirmer

POO, Manono Angeline

Education

THESIS: Exploring evaluative criteria and modes of representation in early number teaching across English and Sepedi medium classrooms

The candidate's study explored multilingual and multi-representational moves in early grades, English- and Sepedi-medium mathematics classrooms. To understand differential outcomes, the candidate developed a framework for studying how multilingual and multi-representational moves combine to offer different levels of access to mathematics. Examiners commended the theoretical and empirical insights offered for teaching and teacher education.

Supervisor: Professor H Venkatakishnan

RAFAELY, Daniella

Psychology

THESIS: The social organisation of experience in interaction: hierarchies of entitlement in talk about child deaths.

Lauded as creative, sophisticated, and challenging, this study uses an ethnomethodological, conversation analytic approach to examine radio-based discussions of incidents involving deaths of children. The analysis demonstrates how participants manage their relative positions on a gradient of entitlement to emotional experiences of child death. It thereby specifies some mechanisms through which the child is produced and reproduced as a socially and morally privileged category in the course of everyday interactions.

Supervisors: Dr B Bowman and Dr K Whitehead

RAMACHANDRAN, Murali

Philosophy

THESIS: Contingent identity, rigid designation and counterpart theory

In his dissertation, the candidate develops a novel view on which the notion of contingent identity is coherent and there exists the possibility of certain objects being identical, but not necessarily identical. The dissertation was highly praised by the examiners and is expected to lead to a number of publications."

Supervisor: Dr D Martens

SELEKANE, Nkosingathi Leonard

African Languages and Linguistics

THESIS: Representing post-apartheid township and the rural: the case of ETV's Ekasi : Our stories, Mzansi Magic's Lokshin Bioskop and Mzansi Movies

The thesis speaks to South African film, African popular culture and cultural studies. The study argues that post-apartheid popular films appropriate narratives and filmic aesthetics that align to post-apartheid nation-building imperatives and neoliberal policies. Through analysis of selected films, this study postulates the vantage points of these films conceal realities about black spaces and present sugar-coated views. The effect these films have is that recreate the ambitions for liberation and political redress.

Supervisor: Prof I Mhlambi

SUPARSAD, Viraj Nardev

Media Studies

THESIS: Global Femininities: India, Bollywood Actresses and Post-feminism

Global femininities: India, Bollywood actresses and post-feminism looks at existing theoretical work on post-feminism and femininities, specifically with the intention of locating such theoretical discourses outside of western constructions and frameworks. This thesis critically examines Indian mainstream popular media content about Bollywood and the women who occupy that space to properly understand the ways in which gender manifests in that context. Using existing theoretical discussions from post-feminism, celebrity culture, affect and femininities, this project considers how gender is constructed and disseminated to audience's via media content about Bollywood actresses.

Supervisor: Ms D Marco

TABANE, Onkgopotse Jeremia

Media Studies

THESIS: Bridging the gap: an analysis of the complicated relationship between government and the media 23 years into democracy

This study examines the complex relationship between the media and the government in South Africa during 23 years of democracy, from 1994 to 2017. It is an analysis of the evolution of such relations in the post-apartheid period, examining the perceived tensions between the media and the government - and by extension, the ruling party - and the impact it has had on the ability of the government to communicate effectively with its citizens. The study offers key reflections on how to improve relations between the media and the government as well as better government communications

Supervisor: Dr G Daniels

ZHRINGER, Natalie Simone

International Relations

THESIS: Moving beyond international norm emergence - Diffusion, contestation and adaptation of an international norm: The case of the responsibility to protect (R2P)

The candidate's work touches upon a central theme in the research on international norms which forms an important sub-field within the discipline of IR. The thesis advances our understanding of how norms are changing long after they have been established, an area which scholarship has paid insufficient attention to. Her thesis by publication makes an important contribution exploring processes of norm evolution. By using the example of the responsibility to protect and the African Union's response to the crisis in Libya in 2011, she showed how international norms are formed and changed over time. Furthermore, her work also explores those conditions which are informing these norm generative processes; few have started doing this. The candidate's study is important both empirically with its focus on Africa as well as theoretically, conceptualising norm evolution and its facilitating condition. This combination of empirical and conceptual innovation deserves wider recognition in the field.

Supervisor: Dr M Brosig

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IHELE THE PROCESSION

IHELE

Words and music by S.B.P. Mnomiya

Anhom
Falalala
Obani labo?
Baphi Ahhom?

Ngibona beza
Beyikazela
Bathwel 'ongiyane
Bavela kuphi na?
Obani labo?
Ongqondongqondo
Osibakhulu
Yibo labo hhom!

Yini na leyo?
Ihele
Ihele lezingwazi zakithi
Ahhom udwendwe
Ahhom
Udwendwe lwezingqwele zakithi
Nant' ihele
Longqondongqondo
Nant' ihele
Losibakhulu
Udwendwe
Udwendwe lwezingqwele zakithi

THE PROCESSION

Who are those?
Which, Falalala?

I see them coming
Walking with swinging garments
They are wearing head rings
Where do they come from?
Who are those?
They are people with knowledge
They are people in authority
These are the ones

What is that?
It is a procession
A procession of our heroes

It is a procession
A procession of our champions
Here is a procession
Of people of knowledge
Here is a procession
Of people of knowledge
A procession
A procession of our heroes

Ihele is known as the 'Black' *Gaudeamus Igitur*. In song, the writer, Mnomiya uses very poetic language to describe a graduation ceremony. The soloist sings of the 'strange' procession of people in long robes and head gear. The choir responds by saying that these people are academics who read profound books of knowledge.

Mnomiya goes on to say that the graduates are an inspiration to all of us, and we will also graduate like them one day. The song goes on to wish the graduates well and it ends with a resounding "Halala" (well done!).

GAUDEAMUS

Gaudeamus igitur
Juvenes dum sumus
Post jucundum juventutem
Post molestam senectutem
Nos habebit humus.

Ubi sunt qui ante nos
In mundo fuere?
Vadite ad superos
Transite in inferos
Hos si vis videre.

Vita nostra brevis est
Brevi finietur.
Venit mors velociter
Rapit nos atrociter
Nemini parcetur.

Vivat academia
Vivant professores
Vivat membrum quodlibet
Vivat membra quaelibet
Semper sint in flore.

Vivant omnes virgines
Faciles, formosae.
Vivant et mulieres
Tenerae amabiles
Bonae laboriosae.

Vivant et republica
et qui illam regit.
Vivat nostra civitas,
Maecenatum caritas
Quae nos hic protegit.

Pereat tristitia,
Pereant osores.
Pereat diabolus,
Quivis antiburschius
Atque irrisores.

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

Where are they
Who were in the world before us?
You may cross over to heaven
You may go to hell
If you wish to see them.

Our life is brief
It will be finished shortly.
Death comes quickly
Atrociously, it snatches us away.
No one is spared.

Long live the academy!
Long live the teachers!
Long live each male student!
Long live each female student!
May they always flourish!

Long live all maidens
Easy and beautiful!
Long live mature women also,
Tender and loveable
And full of good labor.

Long live the State
And the One who rules it!
Long live our City
And the charity of benefactors
Which protects us here!

Let sadness perish!
Let haters perish!
Let the devil perish!
Let whoever is against our school
Who laughs at it, perish!

ACADEMIC DRESS

The academic dress of this University is patterned on that of the Universities of Oxford and Cambridge, with modifications based on the model of the University of London and certain individual features, particularly in the costumes of office bearers and the hoods of degrees of bachelor and master.

Dress for Office Bearers

- The Chancellor wears a scarlet silk gown with a broad facing of black velvet down each side, embroidered in gold and a black velvet cap with gold cord and tassels.
- The Vice-Chancellor and Principal wears a blue silk gown with a broad facing of gold silk down each side, embroidered in blue, the sleeves being lined with gold silk. The cap is of the same design as that of the Chancellor.
- The Chairman of Council wears a black silk gown with a broad facing of red velvet down each side and around the neck, the sleeves being lined with gold silk. The cap is of the same design as that of the Chancellor.
- The academic dress of the Deputy Vice-Chancellors and the Executive Directors is the same as that of the Vice-Chancellor and Principal, except that the colour of the facing and sleeves of the gown and of the cord and tassels of the cap is silver-grey.
- The gown of the President of Convocation is of blue silk, with a broad facing of gold silk down each side, the sleeves being lined with white silk. The cap is the same as that of the Chancellor, but with a blue cord and tassels.
- The Registrar wears a black silk gown with a broad facing of blue silk down each side, bordered with gold braid. The cap is the same as that of the President of Convocation.
- A member of Council wears a black silk gown with a broad facing of gold silk. The cap is the same as that of the Chancellor.
- The gown of the President of the Students' Representative Council is black with a broad facing of blue satin.

Graduands' Gowns

- The gowns for all degrees of bachelor and master of the University are black, of the same pattern as the gown for a Master of Arts at the University of Oxford.
- The gown for the degree of Doctor of Philosophy is scarlet, after the University of London pattern.
- The gown for a senior doctorate is the same as that for the PhD, but with a gold satin facing on each side of the gown and with the sleeve button and cord in gold.

The Academic Hood

The academic hood is the principal feature of the costume for holders of our degrees of bachelor and master. The hood for the PhD is standard, regardless of the Faculty in which the degree was obtained. It is scarlet silk, lined with white silk.

Degree Colours

The hoods reflect the colour or colours of a particular degree or associated degrees.

THE UNIVERSITY MACE



Maces were originally weapons of defence, designed to break through armour. In medieval times, bishops carried a mace instead of a sword into battle to enable them to defend themselves in accordance with the canonical rule that forbade a priest to shed blood. In time, the mace has come to be regarded as a symbol of delegated authority vested in a person or an institution. At this University, it is a symbol of the authority vested in the Chancellor and a reminder of the mandate given by the legislature of this country to the University to grant degrees.

The University mace is the work of the Edinburgh designer, silversmith and engraver, William Kirk, who designed and made the mace of the University of Stirling and of other institutions. It is silver-and gold-plated, is 1070 millimetres long and 180 millimetres broad and weighs seven kilograms. The heraldic devices used in the decoration reflect the character of this University as an institution of learning, set in a mining centre within the Republic of South Africa.

The head of the mace with its spreading vertical blades is symbolic of the horns of a springbok. The central vertical spike is representative of a rock drill on the mine, and the amber stone set in the head is intended as a tribute to a past Chancellor through its association with his name, Bernstein, which in German means amber stone. The heavy quality of the head is consistent with the traditional concept of the mace as a weapon of defence. The collar repeats the shape of the head. It consists of eight cogs which symbolise the cog-wheel in the University coat of arms and represents mining and industry. The shaft is octagonal and divided into three sections. The coat of arms of the University is placed on the shaft under the collar. Below this the words *Universitas Witwatersrandensis Johannesburgi*: are inscribed, followed by the date in Roman numerals – MCMLXXVI (1977) – which signifies the year of the dedication of the mace.

The mace is a symbolic portrayal of this University, this city, the Witwatersrand and the Republic of South Africa. It is a constant reminder to members of Council and Senate to uphold at all times the rights, powers and privileges of the University and its governing bodies.

EMERGENCY AND FIRE PLANS

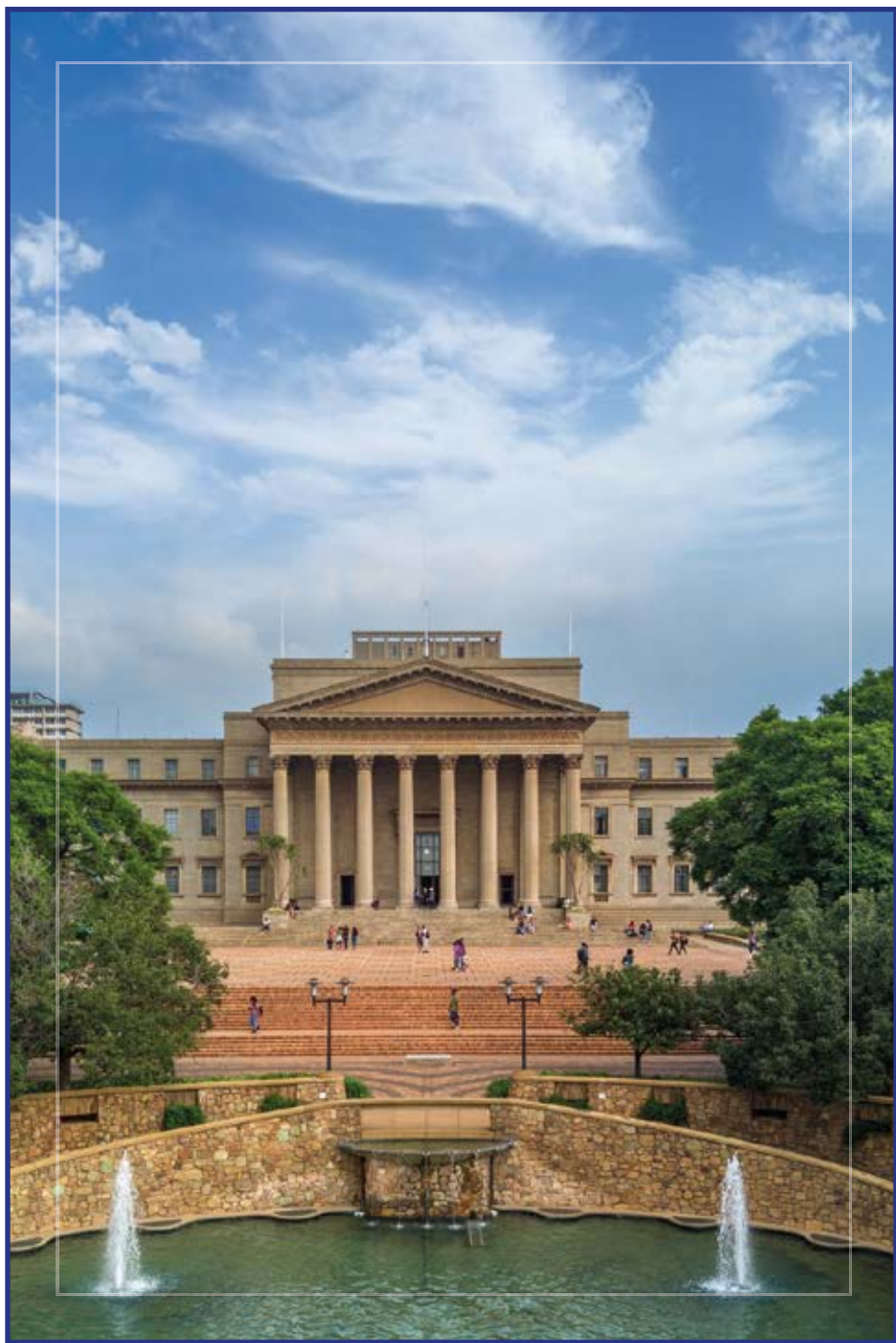
DURING GRADUATIONS

1. In the event of an emergency and/or fire:

- The presiding official (Chancellor/Vice-Chancellor/Deputy Vice-Chancellor) will make an announcement requesting guests, graduands and staff to keep calm and remain seated;
- The Ushers will assist guests to proceed to the nearest Emergency exits in order to evacuate the Great Hall in an orderly fashion;
- Emergency exit signs are visible in red above all exit doors situated on your left and right hand sides as well as the back of the Hall;
- The Ushers will assist the elderly and disabled guests out of the building;
- The academic procession on stage must exit through the back stage door;
- Once outside the Great Hall all guests, graduands and staff must proceed to the main assembly point on the piazza.

2. In the event of a Bomb threat

All bomb threats will be treated as real in order to protect lives and property and the premises will be evacuated immediately.



DISTINCTLY WITS

Wits is one of only two universities in Africa to be placed in the top 200 (from amongst 23 000 universities world-wide) in two separate international rankings. A world-class research university, Wits aims to be in the top league of world leading universities built on intellectual excellence, international competitiveness and measurable impact.

Wits is:

- internationally recognised for its research and its accredited academic programmes
- an active leader that takes a stand on social issues
- an engaged University committed to the advancement of the public good
- The latest 2017 alma mater survey by Times Higher education ranking placed Wits amongst the world's top 100 universities from which Fortune 500 CEOs graduated
- a University that boasts highly skilled teams working in astronomy, physics and related areas on the SKA project and other SA telescopes, and at CERN in Switzerland where Wits academics made a significant contribution to finding the Higgs Boson
- the institution that maintains the highest proportion of independent financial support
- a leader in the evolutionary sciences and the curators of priceless faunal, floral and hominid collections including the Taung Skull, Little Foot, Sediba and Naledi fossils
- proud of the four Nobel laureates and the 91 Rhodes Scholars that have emanated from the University
- the intellectual hub of Africa and has over 40 key projects actively running on the continent
- proud of its more than 180 000 graduates. More than 97% of Wits graduates obtain permanent employment within 6 months of graduation
- renowned for its balanced approach to all disciplines. Half of all enrolments are in the Science, Engineering and Technology fields
- proud of its academics who wrote four research articles that are ranked in the world's top 0.1% best articles in 2016
- pleased to collaborate with peers across 179 countries, including all the countries in Africa, bar two. Outside of South Africa, Wits produces most of its research in collaboration with leading universities and research centres in the world.

NATIONAL ANTHEM

Nkosi sikelel' iAfrika
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.

The Wits Choir

The Wits Choir has been under the direction of conductor and trainer, Dalene Hoogenhout, since 1995. Their repertoire is colourful and vibrant. They perform regularly at graduations and important ceremonies. The Wits Choir has toured internationally as well as playing host to other choirs here. They are also active in the community, undertaking choral outreach programmes.