Graduation Date: 10 July 2024

Time: 14:30

FACULTY OF SCIENCE

DEAN: PROFESSOR N CHETTY BSc Hons (Natal) MS PhD (Urbana-Champaign) MSAIP MASSAf

Master of Science

AXELROD, Guy Ross (with Distinction)

Mathematics

DISSERTATION: Tableaux and decision procedures for many-valued modal logics

BIELDERMAN, Sebastian Christopher

Archaeology

DISSERTATION: SBLS lithic technology and its behavioural implications

BUTLER, Kirsten Ann

Animal, Plant and Environmental Sciences

DISSERTATION: Biodiversity stewardship in South Africa - an assessment of the Klipkraal biodiversity stewardship programme and its potential for conservation

CHIKOMO, Nontobeko Natasha

Animal, Plant and Environmental Sciences

DISSERTATION: Seasonal abundance and diversity of mites in Coffea arabica L. at Beaver Creek Coffee Estate, South Africa

DE JAGER, Vasti

Geography, Archaeology and Environmental Studies

DISSERTATION: Assessment of disposal methods of construction and demolition waste: a case study of south-eastern industrial and residential areas in Johannesburg, South Africa

DUNN. Benjamin Graham

Environmental Sciences

RESEARCH REPORT: Commercial maize farmers' adaptations to climate change in Sannieshof, North West Province, South Africa

DU PLESSIS, Thea-Leonie

Molecular and Cell Biology

DISSERTATION: Establishing and characterising organoid cultures from colon tissue of South African individuals

ESWARAN, Nithya

Geography, Archaeology and Environmental Studies

DISSERTATION: Pandemics and Heritage: understanding the impact of the Covid-19 pandemic on Archaeotourism in South Africa

FREIMOND, Joseph Scott (with Distinction)

Animal, Plant and Environmental Sciences

DISSERTATION: Quantifying and mapping urban ecosystem services in Johannesburg, South Africa

GILBERT, Nikhil (with Distinction)

Computer Science

DISSERTATION: An assessment of the performance of contrastive learning methods incorporated into policy gradient algorithms

GILFILLAN. John Edward Malan

Geography, Archaeology and Environmental Studies

DISSERTATION: Does public participation facilitate the development of a comprehensive social impact assessment process in South Africa? A study of the Carolina town community in Mpumalanga

HARRIS, Wade (with Distinction)

Palaeontology

DISSERTATION: The relationship between dental complexity and mandibular shape: implications for dietary inference in stem mammals

HASROD, Taskeen (with Distinction)

Chemistry

DISSERTATION: Imputation of missing values and the application of transfer machine learning to predict water quality in acid mine drainage treatment plants

HECHTER, Ernst Heznz Chemistry

DISSERTATION: Magnetic enhancement of a high entropy spinel oxide electrocatalyst for rechargeable zinc-air batteries

HOWARD, Jodi Anne

Animal, Plant and Environmental Sciences

DISSERTATION: Hold your horses: the effect of play behaviour in horses (Equus caballus) under imposed stress

JAXA, Busisiwe Animal, Plant and Environmental Sciences

DISSERTATION: The supply of ecosystem services along an urban-rural gradient, in Johannesburg, South Africa

DISSERTATION: On the geometry of lightlike hypersurfaces

KLINKERT, Celine Megan

Animal, Plant and Environmental Sciences

DISSERTATION: Water quality monitoring of biological and chemical pollutants into the Wakkerstroom Wetland

KRISTENSEN, Daniella (with Distinction)

Geography, Archaeology and Environmental Studies

DISSERTATION: The holiday climate index: applicability and suitability for the South African context

KUNENE, Thembinkosi Eezy (with Distinction)

Mathematics

Mathematics

DISSERTATION: Analysis of some convergence results for inertial variational inequalities problem and its application

KWINDA, Fhatani Molecular and Cell Biology

DISSERTATION: Isolation and characterisation of entomopathogenic fungi

LEBANG, Kagiso Brian Moses

Medical Physics

RESEARCH REPORT: A quantitative analysis of EPID images for medical physics quality assurance using Pylinac

LEPOTA, Thabo James

DISSERTATION: The development of a burn-in test station for the ATLAS tile calorimeter low voltage power supplies for phase II upgrades.

MABOYA, Josephine Tshegofatso

Chemistry

Physics

DISSERTATION: Use of transaminases for the biosynthesis of enantiopure building blocks of two essential medicines: Ethambutol and Dolutegravir

MAKDA, Javeria Physics

DISSERTATION: The culprit for the termination of Mars' magnetic field: Dark Matter

MAKOBE, Benjamin

Geographical Information Systems and Remote Sensing

RESEARCH REPORT: An integrated approach for detecting and monitoring the Campuloclinium macrocephalum (Less) DC using the MaxEnt and machine learning models in the Cradle Nature Reserve, South Africa

MAPHALLA, Retsebile Maruruele

Statistics

DISSERTATION: Clustering and classification techniques in the presence of outliers: an application to the Johannesburg Stock Exchange stocks

MBATHA, Cebolenkosi

Environmental Sciences

RESEARCH REPORT: Assessment of the impact of load shedding on the households of Alexandra, Johannesburg, South Africa

MCINNES, Keiran George (with Distinction)

Molecular and Cell Biology

DISSERTATION: A clot to uncover: FOXP3 and SARS-CoV-2 nucleocapsid interactions and their effect on DNA binding

MEYER, Charné Amy

Geography, Archaeology and Environmental Studies

DISSERTATION: The extent of the inclusion and consideration of extreme climate events and health in South African policies; the case of eThekwini

MOKHETHI, Ntswaki Marry

Geography, Archaeology and Environmental Studies

DISSERTATION: An assessment of beauty waste management practices: a case study of Rustenburg beauty salons

MUNATSI, Wendy Tsitsi

Chemistry

DISSERTATION: Design and synthesis of triazine derivatives as non-nucleoside reverse transcriptase inhibitors

NAIDOO, Shiven

Molecular and Cell Biology

DISSERTATION: Using ChIP-seq and Gene Expression Microarray data to explore transcriptional dysregulation of *PXDN* and *PXDNL* in cardiovascular diseases

NEFALE, Mpho Mendy (with Distinction)

Computational and Applied Mathematics

DISSERTATION: Overlapping multidomain paired quasilinearisation methods for solving boundary layer flow problems

NWAKPA, Chidi Elijah (with Distinction)

Mathematics

DISSERTATION: Relaxed inertial algorithm for solving equilibrium problems

OKORIE, Kalu Okam (with Distinction)

Mathematics

DISSERTATION: Convergence results for inertial regularised bilevel variational inequality problems

ORNELAS, Pedro Dinis (with Distinction)

Physics

DISSERTATION: Skyrmions and vectorial wavefunctions

OTTEN, Joseph Johannes

Medical Physics

RESEARCH REPORT: Feasibility and the facilitation of off-site treatment planning services at Charlotte Maxeke Johannesburg Academic Hospital

PETERS, Cade Ribeiro (with Distinction)

Physics

DISSERTATION: The Eigenmodes of complex media

RAMPFUMEDZI, Tshilidzi Michael (with Distinction)

Chemistry

DISSERTATION: Characterisation, quantification and recovery of rare earth elements (REES) in South African coal fly ash samples

RILEY, Bradley Douglas (with Distinction)

Animal, Plant and Environmental Sciences

DISSERTATION: Heat-related health impacts: the responses of local governments to current and emerging heat extremes in the Gauteng Province

ROOPLAL, Samista Kim

Animal, Plant and Environmental Sciences

DISSERTATION: Modelling current and future distributions of Warburgia species at continental (Africa) and local (South Africa) scales

SANGWENI, Siyabonga Patrick

Animal, Plant and Environmental Sciences

DISSERTATION: The function of 'plant biltong' collected by bush Karoo rats (Otomys unisulcatus)

SOROUR, Wendy Loryn (with Distinction)

Geographical Information Systems and Remote Sensing

RESEARCH REPORT: Determining the spatial variations of evapotranspiration rates in a semiarid region

TSHABALALA, Khanyisile Agnes

Interdisciplinary Global Change Studies

RESEARCH REPORT: Characterisation of drought using hydrological and meteorological indices: a case study of Bethlehem. South Africa

TSHIVHASE, Funani

Geographical Information Systems and Remote Sensing

RESEARCH REPORT: Monitoring and evaluating urban land use land cover change using machine learning classification techniques: a case study of Polokwane municipality

WALKER, Stephen Tom

Actuarial Science

DISSERTATION: Lessons for South Africa's proposed social security retirement reforms from the experience of other sub-Saharan African countries

XU. Yi Fan (with Distinction)

Molecular and Cell Biology

DISSERTATION: Chromatin accessibility changes during early monocyte-to-macrophage differentiation

XUBA, Ntsika (with Distinction)

Animal. Plant and Environmental Sciences

DISSERTATION: The relationship between climate variability, household food security, and child nutrition in a rural social-ecological system

ZARANYIKA, Zororo Emmanuel

Computer Science

RESEARCH REPORT: Evaluating pre-training mechanisms in deep learning enabled tuberculosis diagnosis

ZDRAVKOVIC, Milica (with Distinction)

Physics

DISSERTATION: Solar cell simulation using Ab Initio methods

ZVIUYA, Patience

Molecular and Cell Biology DISSERTATION: Comparison of Saccharomyces cerevisiae and the novel wild yeast used in beer fermentation and

their future in industrial biotechnology

Bachelor of Science Honours

BANDA, Khanyisile Chemistry

DEBEILA, Neo Animal, Plant and Environmental Sciences

DE BRUIN, Jorenthia Fiona Animal, Plant and Environmental Sciences

DLAMINI, Lindani Ngoba (with Distinction) Big Data Analytics

DLAMINI, Sinethemba Yenzokuhle Microbiology and Biotechnology

Chemistry FATYELA, Mihlali

GAETSOSIWE, Bokamoso Lynden Geology

GOVENDER, Makaila Biochemistry and Cell Biology

Animal, Plant and Environmental Sciences GOVENDER, Megan (with Distinction)

HLATSHWAYO, Zamangwane Chemistry

Computational and Applied Mathematics HLOPHE, Lindani Melusi

KADZOMBE, Tatenda Animal, Plant and Environmental Sciences

KEKANA, Tokollo (with Distinction) Geology

KELI, Zizipho Geography KHOZA, Keneilwe Chemistry KHUMALO, Chris Thabo Animal, Plant and Environmental Sciences KUBEKA, Mpendulo Kwanda Chemistry Mathematics KUNENE, Thembinkosi Eezy LUQHIDE, Sibabalo Computer Science Mathematical Sciences MAFRIKA, Okuhle MAGAGULA, Siphokazi Makhosazana (with Computational and Applied Mathematics Distinction) Mathematical Sciences MAKOLA, Khotso Emmanuel Geology MALESA, Nthabiseng Presel **Physics** MASHISHI, Elijah Kotloano Elias MATHABE, Tshegofatso Freyciuos Animal, Plant and Environmental Sciences MAZIBUKO, Mthenjwa Ndumiso Applied Bioinformatics Animal, Plant and Environmental Sciences MBAYELA, Madie Tshimangadzo MIDZUK, Adam Jay Palaeontology **Physics** MKHONDO, Bradley MOGOTSI, Makgoshi Omphemetse Animal, Plant and Environmental Sciences Geology MOKOTEDI, Amogelang MORENA, Mahlogonolo **Physics** MOTOTO, Dintle Jason Biochemistry and Cell Biology Animal, Plant and Environmental Sciences MUDAU, Moshahlama Grany MZOBE, Sphesihle Nomfundo Chemistry **NELUFULE**, Rofhiwa Reinhard Chemistry NTHOKE, Mokgadi Gabriel Animal, Plant and Environmental Sciences RASETHETHO, Oamogetswe Prudence Geographic Information System and Remote Sensing REDDY, Saieshnie Microbiology and Biotechnology SANGWENI, Nkosenhle Mathematical Sciences Animal, Plant and Environmental Sciences SEEISO, Kutloano Luyanda

SEGANA, Pamela Amantle

Big Data Analytics

THOBEJANE, Mante Rhyder

Microbiology and Biotechnology

VAN NIEKERK, Carla

Genetics and Developmental Biology

VAN ZYL, Albertus Stephanus

Mathematics

VILAKAZI, Precious

Animal, Plant and Environmental Sciences

Bachelor of Science

BANDA, Khanyisile

BOWDLER, Ruth

CHAUKE, Shiluva Balerina

CHAUKE, Shiseke Victor Vutivi

DADOO, Amaani

FEBRUARY, Zinzi Georgia

GALA, Hlulani Ngobile Israel

HLUNGWANE, Nicholas Tlhandluko

KGANYAGO, Malosi Madikoto

KHATI, Naledi

KHESWA, Sinethemba Goodness

KHULU, Nobuhle S'busisiwe

LEHONG, Biancha Refentse

MABIDI, Tshilidzi Robert

MABUSELA, Matlanato Matthews

MAHLOKO, Itumeleng Victor (with Distinction)

MAHOLOBELA, Mitchell Thakgafatso

MALELE, Risuna Clementine

MALULEKE, Ondlani Jennifar

MAMATHUNTSHA, Khangwelo

MANTSHI, Nhlakanipho Wiseman

MAPHOSA, Msindisi Carlet

MARABA, Kabelo Theophilus

MARABA, Omphile Thato

MARIPANE, Nerrisa Segodi

MATHABE, Tshegofatso Freyciuos

MATODZI, Mahlatse Given

MAWHAYI, Senia

MAZWI, Zenande

MDLULI, Siyabonga Hopewell

MHLONGO, Siyabonga

MICHAEL, Kereshlin

MOALUSI, Itumeleng Felicity

MOATSHE, Nokuphila Princess

MODISHA, Kagiso Gift

MOLEFE, Lesego Palesa

MOLELE, Mahlatse Mollen

MOLISE, Teboho Canny

MOLOI, Lehlohonolo Lawrence

MOSIMA, Paul Kutumela

MOSOTHO, Samukelo

MTSHAISE, Andile Mxolisi Innocent

MUHLALA, Kamogelo Shaun

MULEBA, Arinaho

MUNYAMA, Unamaanda

NAGEL, Kayla Miranda

NDJIBU, Rebecca Kapamba Kilolo

NDLOVU, Patience

NGCOBO, Siyabonga

NGOBENI, Andzani

NGWENYA, Zanele Omphile

NKOSI, Neo Thabang

NQINDI, Olwethu

OKOROAFOR, Chisom Alexis

PILUSA, Ripfumelo Lusilly

QOBOLO, Lethabo Shahista

RADEBE, Obakeng

RADEBE, S'phamandla Mlungisi

RATSHIKUNI, Pfunzo Gift

SEKGUBE, Siphiwe

SELAPE, Neo

SEMAUSHU, Remofilwe Pearl

SHONGWE, Ntokozo Saint

SIKOE, Precious Didintle Dineo

SITHOLE, Milisa Enathi

SONJICA, Lihle

THWALA, Ayanda Blessing

TJIANA, Thato

TSHABALALA, Sifiso

ZIKHALI, Nosimilo

ZITHA, Vuyani

ZWANE, Thabo

Postgraduate Diploma in Science

SEMAUSHU, Remofilwe Pearl (with Distinction)

Data Science