



Graduation Programme

The Future. Reimagined.



**Welcome to the
Graduation Ceremony of the
University of Johannesburg
1 April 2020 at 13:00**

**Welkom by die
Gradeplegtigheid van die
Universiteit van Johannesburg
1 April 2020 om 13:00**

**Le a Amogelwa
Moletlong wa Dikapešo wa
Yunibesithi ya Johannesburg
1 Moranang 2020 ka 13:00**

**Niyamukelwa
eMcimbini wokweThweswa kweZiqu
weNyuvesi yaseJohannesburg
1 kuMbaso 2020 ngelo-13:00**

UNIVERSITY OF JOHANNESBURG

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Prof A Parekh
BA, BA Hons, MA (UDW), MA (Kansas USA), DPhil (UDW)

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Prof S Sinha
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Prof SJ Gravett
BA, HEd (PU for CHE), BEd, MEd, DEd (RAU)

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof DJ Mashao
BSc Eng (UCT), MSc Eng (UCT), MSc AM (Brown, USA), PhD (Brown, USA)

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Prof S Khan
BSc, BSc Hons, MSc, PhD (UWC)

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Prof K Naidoo (Acting)
BA, BA Hons, MA, PhD (University of Manchester, UK)

FACULTY OF LAW

Prof LG Mpedi
B Juris, LLB (Vista), LLM (RAU), LLD (UJ)

FACULTY OF SCIENCE

Prof D Meyer
BSc, BSc Hons, MSc (RAU), PhD (California USA)

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Ms S Dlamini
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Prof D Hildebrandt
Ms X Kakana
Mr G Khosa
Mr M Khoza
Ms K Khumalo
Ms B Madikizela
Mr M Mahlasela
Prof T Marwala
Ms Z Matlala
Prof A Parekh
Dr WP Rowland
Prof A Strydom
Ms C Tshilande

PRESIDENT OF CONVOCATION

Prof BM Diale

Gaudeamus Igitur
Gaudeamus igitur,
Juvenes dum sumus;
Post iucundum iuventutem,
Post molestam senectutem
Nos habebit humus.
Vivat academia,
Vivant professores,
Vivat membrum quodlibet,
Vivat membra quaelibet;
Semper sint in flore!

English

Let us rejoice, therefore,
While we are young.
After a pleasant youth
After a troubling old age
The earth will have us.
Long live the academy!
Long live the professors!
Long live each student;
Long live the whole fraternity;
For ever may they flourish!

Sesotho sa Leboa

Ka gona, a re thabeng,
Re sa le ba bafsa.
Ka morago ga bofsa bjo bo bose
Ka morago ga go tšofala mo go nago
le mathata
Lefase le tla ba le rena.
Phela thuto phela!
Phelang diprofesa phelang!
Phelang baithuti phelang;
Phela kagišano ka botlalo phela;
O ka re ba ka phela gabotse
goyagoile!

Afrikaans

Laat ons dan vrolik wees,
Terwyl ons jonk is;
Na 'n aangename jeug.
Na 'n onaangename oudag,
Sal die aarde ons hou.
Lank lewe die universiteit,
Lank lewe die professore,
Lank lewe elke student,
Lank lewe al die studente,
Mag hulle vir ewig hul jeug behou!

Zulu

Ngakho, masithokoze
Sisebasha nje.
Emva kobumnandi bobusha
Emva kwezinkinga zobudala
Umhlaba uzosithatha.
Phambili ngemfundo!
Phambili boSolwazi!
Phambili nakuwe mfundi;
Phambili ngenhlangano yonke;
Maziqhubeke ngonaphakade!

QUALIFICATIONS

1. Bachelor of Science (BSc)

Asvat, Faheem (Computer Science and Informatics)
Baloyi, Governor Ntiyiso (Computer Science and Informatics)
Baloyi, Mahlori (Physics and Applied Mathematics)
Bester, Isabel Zenobia (Mathematics and Computer Science)
Breust, Jason Marcus (Computer Science and Informatics)
Briajraj, Bianca (Mathematics and Computer Science)
Buthelezi, Andile Nadley Refilwe (Chemistry and Mathematics)
Buthelezi, Siyabonga (Computer Science and Informatics)
Buys, Sharon Rose (Mathematics and Psychology)
Chauke, Andrew Makungu (Applied Mathematics and Mathematics)
Crous, Sebastian (Physics and Mathematics) **(with distinction)**
Damane, Mpho Dieketseng (Mathematics and Computer Science)
De Bruyn, Ruan (Information Technology)
Deva, Koshik (Computer Science and Informatics)
Dhladhla, Sibusiso Thabo (Mathematics and Informatics)
Dire, Karabo Dire (Mathematics and Computer Science)
Dithebe, Kgomotso (Computer Science and Informatics)
Dlamini, Shaun Khulani (Computer Science and Informatics)
Dlamini, Zwelihle Makhosonke (Applied Mathematics and Mathematics)
Do Rego, Anabela Lima (Chemistry and Physics)
Dube, Joshua Mkhululi (Applied Mathematics and Computer Science)
Erasmus, Lydia (Applied Mathematics and Computer Science) **(with distinction)**
Farah, Abdurahman (Computer Science and Informatics)
Hassen, Muhammad Ismail (Applied Mathematics and Mathematics) **(with distinction)**
Hati, Tebogo Godfrey (Applied Mathematics and Mathematics)
Hattingh, Nicholas Phillippus (Information Technology)
Hlatshwayo, Lehlohonolo Glenton (Applied Mathematics and Computer Science)

Jefftha, Zonisha Diana Keyola (Mathematics and Computer Science)
Justin, Melissa Aisha (Computer Science and Informatics)
Kgoete, Mahlatse Japheth (Applied Mathematics and Mathematics)
Khoza, Justice Reply (Computer Science and Informatics)
Khumalo, Lungelo Tevin (Biochemistry and Chemistry)
Kruger, Quintin (Information Technology)
Kubheka, Sinethemba Phumelele (Computer Science and Informatics)
Kumalo, Mthulisi (Computer Science and Informatics)
Laubscher, Andre (Computer Science and Informatics)
Ledwaba, Khomotso Lerato (Computer Science and Informatics)
Legodi, Lesetsha David (Applied Mathematics and Mathematics)
Legrand, Benjamin Godwill (Biochemistry and Chemistry)
Mabena, Lindelani Innocent (Computer Science and Informatics)
Mabutla, Keletso (Applied Mathematics and Mathematics)
Madanlal, Akshar (Computer Science and Informatics)
Maheso, Dimakatso Jeannett (Chemistry and Physics)
Mahomed, Gabriel Jordan Branham (Applied Mathematics and Computer Science)
Mahuma, Tshegofatso Emmanuel Kutlo (Biochemistry and Chemistry)
Mailula, Maropeng Portia (Geology and Applied Geology)
Makhonjwa, Sboniso Godfrey (Mathematics and Computer Science)
Makobe, Samuel (Chemistry and Mathematics)
Malebe, Christino (Computer Science and Informatics)
Malele, Phetulo Randfort (Computer Science and Informatics)
Malupa, Thizwilondi Ishmael (Applied Mathematics and Computer Science)
Mambo, Albert (Applied Mathematics and Computer Science)
Mapholo, Tercius Neo (Applied Mathematics and Mathematics)
Mapoo, Beswick (Computer Science and Informatics)
Marais, Klarise (Physics and Mathematics) **(with distinction)**
Maranela, Evelyn Mikateko (Computer Science and Informatics)
Maripane, Khutso (Physics and Mathematics)
Marobela, Kagiso William (Information Technology)
Maseko, Sibusiso Suprise (Applied Mathematics and Computer Science)
Mashavha, Lutendo Francis (Biochemistry and Chemistry)
Mathe, Sivuyile (Computer Science and Informatics)
Matlou, Tshupjane Thato Brian (Computer Science and Informatics)
Mavuso, Mmeli Benevolent (Computer Science and Informatics)

Mazwi, Luyanda (Physics and Mathematics)
Mbokazi, Siyabonga Patrick (Biochemistry and Chemistry)
Mbombo, Masande Thina (Computer Science and Informatics)
Mdiniso, Lwandile (Computer Science and Informatics)
Mekgwe, Sedumedi Prince Nelson (Computer Science and Informatics)
Mfingwane, Aubrey Nhlanhla (Computer Science and Informatics)
Mhlanga, Mfundo (Physics and Applied Mathematics)
Mkhondo, Tumelo (Applied Mathematics and Mathematics)
Mkuni, Samukelisiwe Gugulethu (Mathematics and Economics with financial orientation)
Mmadi, Romeo Motleme (Mathematics and Computer Science)
Mndaweni, Sakhele George (Computer Science and Informatics)
Modise, Karabo (Computer Science and Informatics)
Modise, Philadelphia Mogomotsi (Information Technology)
Mofokunyane, Thabang James (Computer Science and Informatics)
Mogale, Valencia (Mathematics and Economics with financial orientation)
Mogathi, Lebohang Khesani (Computer Science and Informatics)
Mohamed, Zaakir (Information Technology)
Mokgehle, Ndandu Victoria (Computer Science and Informatics)
Mokgwadi, Thumbani Thapelo (Computer Science and Informatics)
Mokhaboke, Tebogo David (Biochemistry and Chemistry)
Mokwena, Freddie Marumo Lehlogonolo (Computer Science and Informatics)
Molatole, Kagiso Johannes (Geology and Physics)
Moloi, Thato (Computer Science and Informatics)
Moloko, Kgomotso Emmanuel (Physics and Applied Mathematics)
Monare, Tshepo Cecil (Computer Science and Informatics)
Morema, Albert Lebohang (Applied Mathematics and Mathematical Statistics)
Morudu, Khanyisile Zandile (Information Technology)
Mosia, Lebohang (Biochemistry and Chemistry)
Mosia, Puseletso (Computer Science and Informatics)
Motaung, Alfred (Computer Science and Informatics)
Motlhabane, Tribute Tswello (Applied Mathematics and Mathematics)
Motlhamme, Omphemetse Refentse (Physics and Applied Mathematics)

Motubatse, Kgobalale Malcolm (Computer Science and Informatics)
Mphafudi, Tjimeng Kgothatso (Computer Science and Informatics)
Mphaphuli, Mutshidzi (Biochemistry and Chemistry)
Msiza, Thabo (Physics and Mathematics)
Mudgal, Jitish (Physics and Applied Mathematics)
Mulibana, Murei (Physics and Applied Mathematics)
Muzeza, Divine (Computer Science and Informatics)
Mvubu, Mnxobi Given (Physics and Applied Mathematics)
Naidoo, Hershlin (Computer Science and Informatics)
Naidoo, Kashvir (Computer Science and Informatics)
Ncongwane, Thabang Bernette (Biochemistry and Chemistry)
Ndaba, Mthokozisi (Physics and Applied Mathematics)
Ndlela, Andile Daniel (Information Technology)
Ndlovu, Bobo (Biochemistry and Chemistry)
Ndwandwe, Sfundo Amanda (Chemistry and Mathematics)
Nekhavhambe, Vhuthuhawe Celline (Information Technology)
Nelwamondo, Tshenuwani Sean (Computer Science and Informatics)
Ngakane, Molefi (Computer Science and Informatics)
Ngobeni, Malwandla (Applied Mathematics and Computer Science)
Ngomseu Fotsing, Herve (Computer Science and Informatics)
Ngonyama, Lunga (Computer Science and Informatics)
Ngwenya, Nontokozi Gratitude (Mathematics and Psychology)
Nhlapo, Zinhle Perfect (Applied Mathematics and Mathematics)
Nkabinde, Xolani (Computer Science and Informatics)
Nkosi, Nkosinathi Jeremia (Physics and Mathematics)
Nomvela, Tiyiselani (Applied Mathematics and Mathematics)
Nxumalo, Lungiswa (Biochemistry and Chemistry)
Orfao, Jarred (Computer Science and Informatics) **(with distinction)**
Otoke, Romel Kayumba (Computer Science and Informatics)
Patel, Muntzir (Computer Science and Informatics)
Peters, Jenique Rae (Computer Science and Informatics)
Phophi, Donaven Phumelele (Computer Science and Informatics)
Phuti, Francina (Chemistry and Physics)
Pieterse, Christopher (Information Technology)
Pillay, Leonardo Ricardo (Computer Science and Informatics)
Prajapati, Brijesh Atulkumar (Computer Science and Informatics)
Qhena, Lebohang Isaac (Computer Science and Informatics)
Ramaano, Thabo Victor (Mathematics and Computer Science)

Ramokgopa, Freddy Mamokutupi (Computer Science and Informatics)
Richardson, Wesley Bevan (Information Technology)
Rudd, Irwin Conrad (Computer Science and Informatics)
Saiyed, Adnan Kamruddin (Computer Science and Informatics)
Salee, Suhail (Information Technology)
Sambo, Tebogo Johannes (Physics and Mathematics)
Sao Joao, Jose (Physics and Mathematics)
Sarela, Huvanyani Ivor (Computer Science and Informatics)
Seakamela, Tharollo (Biochemistry and Chemistry)
Sebogo, Njabulo Graduate (Physics and Mathematics)
Seleka, Oratile Tshepo James (Computer Science and Informatics)
Seoketsa, Katlego Jacob (Computer Science and Informatics)
Seshoka, Mokgadi (Applied Mathematics and Mathematical Statistics)
Setswe, Tshegofatso Treasure (Physics and Mathematics)
Shandu, Malibongwe Perfect (Chemistry and Mathematics)
Shivambu, Ripfumelo Festus (Biochemistry and Chemistry)
Sibanda, Eugene Thabiso (Physics and Mathematics)
Sibeko, Relebohile (Biochemistry and Chemistry)
Sibiya, Sifiso Michael (Computer Science and Informatics)
Singh, Sanveer (Computer Science and Informatics)
Sotsaka, Mzwandile (Applied Mathematics and Mathematics)
Swart, James (Computer Science and Informatics)
Swartz, Mellisa Janine (Applied Mathematics and Computer Science)
Thebe, Rocky Mark (Physics and Applied Mathematics)
Thwala, Sibusiso (Actuarial Science)
Toerien, Nicola (Physics and Mathematics)
Trummer, Nicholas Marc (Computer Science and Informatics)
Tshabalala, Tony (Computer Science and Informatics)
Tshikwatamba, Itani (Chemistry and Mathematics)
Tychler, Pavel (Information Technology)
Valashiya, Bekithemba Eldridge (Biochemistry and Chemistry)
Velane, Karabo Martin (Mathematics and Computer Science with distinction)
Vincent, Oliver David (Mathematical Statistics and Economics with financial orientation)
Wessels, Sinead Mariah (Mathematics and Psychology)
Wood, Brandon (Computer Science and Informatics)
Zimase, Siphesihle (Computer Science and Informatics)

2. Bachelor of Science Honours (BSc Hons)

Archary, Diren (Computer Science)
Barnet, Brian (Computer Science)
Coetzee, Jaco (Information Technology)
Dlelaphantsi, Sibonelele (Applied Mathematics)
Dunne, Callum Matthew (Information Technology)
Durieux, Dylan John (Applied Mathematics) **(with distinction)**
Farrukh, Wardah (Informatics)
Gounden, Vishen (Computer Science) **(with distinction)**
Jele, Sizwe Muzi (Information Technology)
Julius, Kevin Matthew (Information Technology)
Khubana, Nomzekelo (Computer Science)
Kruger, Byron (Information Technology)
Lebaka, Pontsho (Computer Science)
Magubane, Siyabonga Thole (Computer Science)
Makgae, Orapeleng Theophilos Tshegofatso (Applied Mathematics)
Mallu, Sufiyan Arif (Mathematics)
Maphisa, Siyamdumisa Praiswell (Information Technology)
Masina, Alex Msimisi (Applied Mathematics)
Mcpherson, Shaheed (Information Technology)
Modiko, Boikanyo (Computer Science)
Moeng, Amogelang Malebo Antoinnete (Physics)
Mogale, Francis Basy (Applied Mathematics)
Mongoai, Katlego (Computer Science)
Motsamai, Reoagile Gift (Informatics)
Mtshemla, Mkhululi (Computer Science)
Mwelase, Phindile (Applied Mathematics)
Nakhooda, Faaizah (Information Technology)
Ndlovu, Siphon (Information Technology)
Nedzungani, Thama (Computer Science)
Ngubane, Zamokuhle (Computer Science)
Ogwok, Daniel (Information Technology) **(with distinction)**
Olivier, Ian Leon (Information Technology)
Phahlane, Gulfornia Thakana (Applied Mathematics)
Shaikjee, Waseem (Computer Science)
Simelane, Samson (Physics)
Sinon, Mohavia Ben Amid (Applied Mathematics)
Sjula, Siphuxolo (Applied Mathematics)

Slogrove, Kayleigh Joy (Information Technology) **(with distinction)**
Spijkerman, Ruan (Information Technology) **(with distinction)**
Theron, Morne (Informatics) **(with distinction)**
Thipe, Orapeleng Phillip (Applied Mathematics)
Tshabangu, Andile (Informatics)
Tshabangu, Cindy Rhulani (Mathematics)
Viljoen, Jason Christopher (Information Technology) **(with distinction)**
Williams, Ivan Luke (Information Technology)
Zuze, Marc Lerhanzo (Computer Science)

3. Bachelor of Commerce Honours (BCom Hons)

Dateling, Alex Thomas (Informatics)
Nkuna, Gabriel Oketch (Informatics)
Siyaya, Nsika Siyanda (Informatics)

4. Master of Science (MSc)

Dlamini, Methembe (Computer Science)
Dissertation: An Adaptive Pedagogical Model to Improve Decision-Making in Intelligent Tutoring Technologies
Supervisor: Prof WS Leung

Fourie, Margaux (Computer Science)
Dissertation: A model based on computer vision for pose recognition in ballet
Supervisor: Prof D van der Haar

Juga, Maureen Lenna (Applied Mathematics) **(with distinction)**
Dissertation: Modelling the Ebola virus disease dynamics in the presence of interference of interventions
Supervisor: Prof F Nyabadza

Tseuoa, Seoli Caswell (Applied Mathematics)

Dissertation: Perturbation Treatment of the Restricted Three-Body Problem

Supervisor: Prof CM Villet

5. **Philosophiae Doctor (PhD)**

Dirirsa, Feraol Fana (Physics)

Thesis: Gamma-Ray Bursts as probes of cosmological parameters at high redshifts

Supervisor: Prof S Razzaque

Masok, Felix Bitrus (Physics)

Thesis: Anthropogenic Radioactivity Measurement and Water Sampling: A case study of rock phosphate storage facility at Richards Bay, South Africa

Supervisor: Prof PL Masiteng

Co-supervisor: Dr RD Mavunda (NECSA)

Co-supervisor: Prof H Winkler

Co-supervisor: Dr PP Maleka (iThemba Labs)

Dirirsa, Feraol Fana (PhD)

Mr Dirirsa was born in Ambo, Ethiopia and holds an MSc in Physics from the Mekelle University in Ethiopia and another MSc degree in Mathematical Sciences with option Applied Physics from the African Institute for Mathematical Sciences (AIMS) in Senegal. He enrolled for a PhD at UJ in 2015. He is currently conducting postdoctoral research at UJ.

Gamma-ray bursts are powerful astronomical transient events emitting large amounts of energy in gamma rays within a short period of time. Several Interesting correlations among the measurable properties of these bursts have been proposed to standardize and use them as standard candles in order to constrain the expansion history of the universe up to a very early time. This standardization rests on phenomenological correlations between spectral properties and energetics, of which one strongly relies on the cosmological models. Mr Dirirsa used data from NASA's Fermi and Swift space telescopes to model and explore radiation from gamma-ray bursts. Using the correlation fits parameters, he built a Hubble diagram and derived constraints on cosmological model parameters. Mr Dirirsa has published his thesis work in a number of peer-reviewed articles, including in the prestigious Astrophysical Journal which received journal Editor's cross-mark. He has also presented at a number of national and international conferences.

Supervisor: Prof S Razzaque

Masok, Felix Bitrus (PhD)

Mr Masok holds an MSc in Physics from the University of Jos, Nigeria. He enrolled for a PhD at the University of Johannesburg in 2015 and is currently a Physics lecturer at Plateau State University, Boko, Nigeria. His research interests are health effects of ionizing radiation, radiation monitoring and health risk assessments. He is a member of the South African Institute of Physics as well a member of the Nigeria Institute of Physics.

The candidate's project investigated the extent and distribution of the activity concentration levels of radionuclides in the Richards Bay Transnet Port. His work showed that, anthropogenic activities have elevated the radioactivity levels around the rock phosphate storage facility and have impacted considerably on the aquatic media. The study made important conclusion on rock phosphate storage activities within Richards Bay as having negligible effects on the environment and health of the occupationally exposed workers as well as the public. The candidate has presented his work at two local conferences, and has published five peer reviewed journal articles.

Supervisor: Prof PL Masiteng

Co-supervisor: Dr RD Mavunda (NECSA)

Co-supervisor: Prof H Winkler

Co-supervisor: Dr PP Maleka (iThemba Labs)

See the back cover for the words of the National Anthem.



A word of thanks to the UJ Alumni Office for sponsoring the flower arrangements at the University of Johannesburg graduation ceremonies.

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www.uj.ac.za/alumni



National Anthem of South Africa

Nkosi sikelel' Afrika
Maluphakanyisw' uphondo lwayo,

Yizwa imithandazo yethu,
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,
O fedise dintwa le matshwenyeho,
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Afrika - South Afrika.

Uit die blou van onse hemel,
Uit die diepte van ons see,
Oor ons ewige gebergtes,
Waar die kranse antwoord gee,

Sounds the call to come together,
And united we shall stand,
Let us live and strive for freedom,
In South Africa our land.