Zekhaya Benard Shozi

Pure Mathematician

Zekhaya Benard Shozi
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Physical Address
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South Africa

About Me I am a lecturer under the New Generation of Academics Programme (nGAP) at Sol Plaatje University. I am affiliated under the School of Natural and Applied Sciences–Department of Mathematical Sciences. I have strong work ethics and I am always willing to learn. My research interest is mainly in Graph Theory but I am generally interested in most areas of pure mathematics.

Education

2019 - 2021

- **Doctor of Philosophy (PhD)**,
  Mathematics,
  University of Johannesburg,
  Auckland Park,
  South Africa,
  Thesis Title: Characterizations of Graphs With Given Maximum Degree and Smallest Possible Matching Number,
  Supervisor: Prof. Micheal (Mike) Henning,
  Progress Status: Awaiting graduation

2017 - 2018

- **Master of Science (MSc)**,
  Mathematical Sciences,
  Stellenbosch University,
  Cape Town,
  South Africa,
  Thesis Title: The Metric Dimension of Cayley Graphs,
  Supervisor: Prof. Tomas Vetrik,
  Progress Status: Graduated

2016 - 2016

- **Bachelor of Science Honours (BSc Hons)**,
  Physics,
  University of Zululand,
  Empangeni,
  South Africa,
  Progress Status: Graduated

2013 - 2015

- **Bachelor of Science (BSc)**,
  Mathematics and Physics,
  University of Zululand,
  Empangeni,
  South Africa,
  Progress Status: Graduated

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Experience

2018 - Now

- **Lecturer**, *Mathematics*, Sol Plaatje University, Kimberley, South Africa

  Courses Presented:
  - 2018, First Year, Second Semester, Discrete Mathematics
  - 2019, Second Year, First Semester, Discrete Mathematics
  - 2020, Second Year, First Semester, Discrete Mathematics
  - 2020, Honours, Second Semester, Graph Theory
  - 2021, Second Year, First Semester, Discrete Mathematics
  - 2021, First Year, Second Semester, Pre-Calculus
  - 2022, Second Year, First Semester, Advanced Calculus
  - 2022, Honours, Second Semester, Graph Theory

  Courses Moderated (Internally):
  - Calculus
  - Algebra
  - Linear Algebra
  - Mathematical Analysis
  - Abstract Algebra
  - Real Analysis

Research

Articles Published/Accepted:

- M. A. Henning, **Z. B. Shozi**, A characterization of graphs with maximum degree and smallest possible matching number: II, *Discrete Mathematics* 345 (3) (2022), 112731, 11 pp.

- M. A. Henning, **Z. B. Shozi**, A characterization of graphs with maximum degree and smallest possible matching number, *Discrete Mathematics* 344 (7) (2021), 112426, 9 pp.

- M. A. Henning, **Z. B. Shozi**, A characterization of the subcubic graphs achieving equality in the Haxell-Scott lower bound for matching number, *Journal of Graph Theory* 96 (4) (2020), 455 − 471.

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Languages

- IsiZulu - Native
- English - Intermediate
- IsiXhosa - Intermediate
- Setswana - Basic

Computer Skills

Operating Systems:
- Windows
- Linux

Office:
- Microsoft Office
- Libre Office

Programming Languages:
- Python
- SAGE
- R

Compilers:
- LaTeX
- TeX
- LyX

References

Person	Prof. M. A. Henning
Occupation	Research Professor (Pure Mathematics)
Institution	University of Johannesburg
Contact Details	mahenning@uj.ac.za

Person	Dr. S. T. Sikwila
Occupation	Head of Department (Mathematical Sciences)
Institution	Sol Plaatje University
Contact Details	stephen.sikwila@spu.ac.za