

SP XHAKAZA Manifesto Doc

Brief manifesto:

I currently serve as a student representative of the Executive Committee (EXCO) of the Division for Condensed Matter and Materials of the South African Institute of Physics. I also serve as chairperson of postgraduate forum in the Department of Physics, Faculty of Science, of the University of Johannesburg. I have been involved with students in physics since my undergraduate degree (2013) at University of Zululand, as a chairperson of physics and engineering society and practical demonstrator for first year students. My involvement with students has grown since then.

I am currently a PhD candidate in experimental physics of highly correlated matter and an assistant lecturer in the Department of Physics, Faculty of Science, of the University of Johannesburg. As an active researcher in experimental physics of highly correlated matter, I work very close with Dynacool physical property measurement system (PPMS) and magnetic property measurement system (MPMS). A suite of electronic transport, thermal transport, thermodynamic, magnetic, and dilatometry measurement options are made possible by three experimental stations housed in our Laboratory of our Highly Correlated Matter Research Group in the Physics Department of the Science Faculty at the University of Johannesburg.

In the past I have been involved with the Faculty of Science, of the University of Zululand in outreach programs and was entrusted to advertise the Faculty and institution to my hometown nearby high schools in attracting more learners in joining science. In 2013, the SAIP annual conference was hosted by Department of Physics, of University of Zululand and I was a part of the Local Organising Committee. I have also hosted WiPiSA lunch in University of Zululand and University of Johannesburg in empowering and encouraging young women to study physics. I have visited my alma mate school to recruit and motivate learners to persevere their studies in physics related careers.

My background experience has equipped me with relevant skills for this position. I am very ambitious and determined to archive my goals, and my enthusiasm motivates people around me. In my matric certificate I got level 2 in physical science. However, that did not limit my abilities to be where I wanted to be. I am now a competent PhD candidate in physics, and I am willing to go an extra mile to contribute my skills and experiences to the organization in reaching out to the students and be their voice.

Some of the contributions I can make as a member of the SAIP Council are:

- Organise workshops for learners/students with existing organizations within SAIP
- Each institution in South Africa should have at least one mentor from WiPiSa, SKA, SAIP, etc. and encourage students to register as members of SAIP.
- Approach stakeholders, raise funds to support schools that do not have laboratories and science books
- Students who won awards from SAIP annual conference should be featured in institutional/faculty news
- Promote unity in diversity by structuring physics related games and competitions that involves both undergraduate and postgraduate students in all institutions within South Africa.
- Approach primary and high schools to encourage both boys and girl in equal measure to pursue Physics and Mathematics.
- Approach the SABC radio and educational channel to reach out for greater broadcast coverage
- With a new normal, we should organise virtual motivation and showcase what we do experimentally in our research labs

Please refer to my full CV for more information. Thank you.



SINDISIWE PRECILIA XHAKAZA

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OBJECTIVE STATEMENT

Work in the field of structural design, materials research, minerals processing and testing or any related industry and give back my service to South African communities. To secure, create opportunities, develop, and enlarge my abilities.

NOTABLE SKILLS

- Communication
- Problem solving
- Leadership
- Report Writing
- Computer Skill (various programmes)
- Teamwork
- Research
- Data Analysis

EMPLOYMENT HISTORY

Apr. 2019 – Present Assistant lecturer (*University of Johannesburg*)

Duties and Responsibilities:

- Lecture, and supervise students work
- Provide students with advice on study skills
- Carry out all continuous assessments, monitoring and evaluation of examinations work
- Provide academic input on existing course and maintain appropriate records

Mar. 2016 – Mar. 2019 Tutor (*University of Johannesburg*)

Duties and Responsibilities:

- Prepare tutorial, homework, and assignment questions for students
- Facilitate students to comprehend and improve their skills on the content covered
- Evaluate students' progress
- Provide weekly report on student progress

Mar. 2015 – Oct. 2016 Tutor (*University of the Western Cape*)

Duties and Responsibilities:

- Interpret and implement the teaching-learning guidelines prepared for each tutorial session by course coordinator.
- Assist and train students in developing appropriate study skills.
- Assist students to become independent collaborative learner
- Provide weekly report on student progress

Feb. 2013 – Nov. 2014 Student Laboratory Assistant (*University of Zululand*)

Duties and Responsibilities:

- Looking after laboratory equipment's and ensuring that the laboratory is in order
- Ensure safety of students and staff in the laboratory
- Setup and run student's experiments at various levels under the supervision of senior assistant.
- Marking of practical reports

EDUCATION

- PhD Degree in Physical Science (in progress), University of Johannesburg
- MSc Degree in Physical Science, 2019, University of Johannesburg
- BSc Degree in Physical Science (Hons), 2016, University of Western Cape
- BSc Degree in Mathematics and Physics, 2015, University of Zululand
- NSC with Bachelor's pass, 2010, Isolumuzi Secondary School

LEADERSHIP EXPERIENCE

- Student Representative on the Division for the Physics of Condensed Matter and Materials of the SAIP (Aug. 2021 - Present)
- Chairperson for Postgraduate Forum in Department of Physics, of University of Johannesburg (Jul. 2021 - Present)
- Chairperson for Physics and Engineering Society in Department of Physics, of University of Zululand (Mar. 2013 - Mar. 2014)

LANGUAGES

- Zulu
- Xhosa
- English
- Swazi

HOBBIES AND INTERESTS

I enjoy socializing with family, friends and colleagues.

I also enjoy watching animated movies, cooking, listening to music and dancing.

I also enjoy your reading the bible, and any emotional intelligence or self-empowerment book.

REFERENCES

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