

Vote Nkonzo Xulu

Empowering Students. Advancing Physics.

- Unite students across institutions
- Amplify student voices within SAIP
- Promote participation in conferences and research
- Encourage mentorship and innovation
- Inspire a connected and inclusive physics community

NKONZO XULU

PERSONAL DETAILS

First Name
Nkonzo

Last Name
Xulu

Phone
073 639 0167

Email
nkonzo.xulu989@gmail.com

Address / Location
17 Wagtail Court
Belle- vue Estate
Eersteriver
7100

Gender
Male

EE Status
Black

Marital Status
Single

Nationality
South African

Notice
Immediately

Willing to Relocate
Yes

LANGUAGES

- IsiZulu (Native)
- English (Fluent)

PROFILE

I am a friendly, clear-speaking, and passionate person who wants to build a career in nuclear physics. I hold a Master of Science degree with distinction, which reflects my dedication and drive to excel in what I pursue. My studies focus on advanced topics in nuclear physics, particularly accelerator technologies and radiation detection. I have a strong background in experimental nuclear physics and hands-on experience working with detectors and laboratory setups. I'm also familiar with data analysis software, which has sharpened my problem-solving abilities. In addition, I have experience teaching physics, which has helped me explain complex concepts in a simple, accessible way.

EDUCATION & QUALIFICATIONS

BSc. Mathematics and Physics	University of Zululand
2021	
<ul style="list-style-type: none">Completed Bachelor of Science Degree	
BSc. Honours in Physics	University of Zululand
2022	
<ul style="list-style-type: none">Completed Honours Degree	
MSc. in Physics	University of Zululand
2024	
<ul style="list-style-type: none">Completed Master of Science Degree	
PhD. in Physics	University of Zululand
2025	
<ul style="list-style-type: none">In Progress	

TECHNICAL & MAINTENANCE SKILLS

- Equipment troubleshooting, setup, calibration
- Vacuum system operations and control panel monitoring
- Coaching learners and working effectively in multidisciplinary teams

SOFT SKILLS

- Effective Communication (Verbal & Written)
- Team Collaboration and Interpersonal Skills
- Problem-Solving and Critical Thinking
- Decision-Making and Adaptability
- Accountability and a Safety-First Mindset
- Coding and Data Analysis: Python, MATLAB, ROOT
- LaTeX

STUDENT EXPERIENCE

Volunteer Tutor, University of Zululand

Feb 2021 – Nov 2022

- Tutored Mathematics and Physics, reinforcing teaching and mentoring ability.
- Supported learners with problem-solving in practical and theoretical topics.

Writing Centre Assistant, University of Zululand

Mar 2023 – Dec 2023

- Assisted students with academic and technical writing.
- Developed strong communication, coaching, and teamwork skills.

Student Radiation Worker, iThemba LABS

Jul 2024 – Jul 2025

- Working under supervision on detector biasing.
- Responsible for cabling and degassing of detectors.
- Involved in the setup and monitoring of detector systems.

REFERENCES

Prof. S.S. Ntshangase
(Supervisor)

University of Zululand
073 983 0205

Dr. A.M. Sithole
(Co-Supervisor)

Cape Peninsula University of
Technology
072 780 5947

Dr. E.A. Lawrie
(Supervisor)

iThemba LABS
078 740 0068

CONFERENCES & INTERNSHIPS

JINR Internship

Dubna, Russia

Jun–Jul 2023

- Participated in technical research and equipment-related projects.
- Delivered presentations on MASHA project operations.

iThemba LABS-SAINTS 2023

Cape Town

Jan–Feb 2023

- Hands-on training in detectors, data acquisition, and technical reporting.

ASP2022

NMU, Port
Elizabeth

Nov–Dec 2022

- Attended physics and development program with technical focus.

IASEN2024

iThemba LABS,
Cape town

9-13 Dec. 2024

- Attended the 2nd international African symposium on Exotic Nuclei

SAIP2025

WITS,
Johannesburg

7-11 July 2025

- Delivered an oral presentation on Nuclear Physics.
- Appointed as the Student Representative for Nuclear Physics.

ACP2025

Lomé, Togo

14–20 Sept. 2025

- Attended the 4th African Conference on Fundamental and Applied Physics.
- Engaged in a variety of physics talks and discussions across different research fields.