

Yoweri Nseko

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Professional Summary

I am a dedicated Ph.D. student in geophysics at Northwestern University with a strong academic background in Earth systems physics and geophysical methods. I have experience in subsurface imaging using seismic ambient noise and have participated in hands-on geophysical fieldwork. I am proficient in scientific computing with Python and passionate about leveraging seismic data to investigate subsurface and tectonic processes across diverse geological settings.

Research Interests

Seismic imaging, earthquake mechanics, and applied geophysics

Education

Northwestern University <i>Ph.D. in Geology (expected)</i> Research: Lithospheric imaging with seismic ambient noise	Evanston, IL 2023–2028
ICTP (The Abdus Salam International Centre for Theoretical Physics) <i>Postgraduate Diploma in Earth System Physics</i> Thesis: Rayleigh Wave Ambient Noise Tomography of Southern Italy	Trieste, Italy 2022–2023
University of Rwanda (EAIFR) <i>M.Sc. in Geophysics (transferred)</i> Completed foundational coursework in classical mechanics, electrodynamics, quantum mechanics, and numerical methods	Kigali, Rwanda 2021–2022
Makerere University <i>Bachelor of Science with Education (Physics & Mathematics), First Class Honors</i>	Kampala, Uganda 2016–2020
Namasagali College <i>Uganda Advanced Certificate of Education</i> Subjects: Physics, Mathematics, Chemistry	Kamuli, Uganda 2013–2015
Busedde College Bugaya <i>Uganda Certificate of Education</i>	Jinja, Uganda 2010–2013

Technical Skills

Programming: Python, FORTRAN, MATLAB

Software: Microsoft Office, LibreOffice, LaTeX

Languages: English (fluent), Lusoga (native)

Soft Skills: Teamwork, communication, time management, adaptability

Teaching Experience

Northwestern University <i>Teaching Assistant</i> Course: Earth's Interior Assisted with grading assignments and laboratory exercises, providing constructive feedback to students.	Evanston, IL Winter 2024
Rines Secondary School <i>Physics & Mathematics Teacher</i> Prepared and implemented lesson plans Served as the head of the physics department and the patron of the mathematics club.	Kampala, Uganda 2019–2021
St. Julian High School Gayaza <i>Mathematics Teacher</i>	Wakiso, Uganda 2020–2021

Fieldwork and Workshops

Summer 2024: DRIAR Fieldwork, Uganda

Retrieved seismic data and demobilized seismic stations (mainly worked with Trillium and STS-2 sensors)

Summer 2024: DRIAR Workshop

Participated in a week-long skills-building workshop at Makerere University

May 2024: NewMERS Workshop

Joined a group of researchers studying seismotectonics and rifting in the East African Rift System to discuss potential research directions, in a workshop organized by Professor Suzan van der Lee at Northwestern University.

May–June 2023: Seismology Skills-Building Workshop

Organized by EarthScope/IRIS

Leadership

2020–2021: Head of Physics Department, Rines SS Namusera

2018–2019: Vice President, Makerere University Physics Society

Awards and Honors

2023: Full Ph.D. Scholarship, Northwestern University

2022: Abdus Salam Award — Full Scholarship, ICTP PGD in Earth Systems Physics

2021: Abdus Salam Award — Full Scholarship, EAFR M.Sc. Program

Hobbies and Interests

Traveling & hiking, reading, football, basketball

Publications

References

Available upon request.