

KATLEHO RAMOTSO

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EDUCATION

THE UNIVERSITY OF ARIZONA

Master of Science in Geosciences
Bachelor of Science in Geosciences, Emphasis in Geophysics
Minors in Mathematics and Leadership Studies & Practice

Tucson, AZ
August 2025 – May 2027
August 2021 - May 2025

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY

Non-degree Seeking – Field Camp Experience

Rapid City, SD
May 2024 - June 2024

CHANDLER-GILBERT COMMUNITY COLLEGE

Non-degree Seeking

Chandler, AZ
June 2019 - May 2021

AWARDS AND HONORS

Geosciences Outstanding Senior (Spring 2025)
Galileo Circle Scholarship, (2024 - 2025)
Dean's List – Full-time (Spring 2024, Fall 2024, Spring 2025)
Outstanding Leadership Award (2022-2023)
Dean's List (Fall 2021)

RESEARCH EXPERIENCE

THE UNIVERSITY OF ARIZONA

Undergraduate Research Assistant, Department of Geoscience

Tucson, AZ
August 2023 – May 2025

- Conducting research with Dr. Patricia Persaud in the Geophysics Department, specifically looking at tremor-like episodes at underground storage caverns at the Napoleonville Salt Dome for seismic hazard monitoring. This helps better understand the behavior of microearthquakes that occurred near the Bayou Corne sinkhole in Louisiana.
- Participated in San Fernando Valley Seismic Deployment and assisted with deploying about 10 instruments to improve geophysical field deployment skills.

BLACK HILLS NATURAL SCIENCES FIELD STATION

Field Camp Experience, South Dakota School of Mines & Technology

Taşkeşti, Bolu Province, Türkiye
May 2024- June 2024

- Prepared stratigraphic columns, structural cross sections, and geologic maps, and completed formal reports of the western part of the North Anatolian Fault Zone.
- Understanding geologic complexities along with geologic hazard assessment and economic geology.

THE UNIVERSITY OF ARIZONA

Undergraduate Research Assistant, Department of Geoscience

Tucson, AZ
June 2023- August 2023

- Assisted the Tectonics Department with mineral separation from key samples from the Andes by rock crushing, water separation, and using the Frantz.

RESEARCH PRESENTATIONS

SEISMOLOGICAL SOCIETY OF AMERICA

Baltimore, MD

Ramotso, K., Persaud, P. (April 2025) “Investigating Tremor-like Episodes at Salt Domes Used For Underground Energy Storage in US Gulf Coast”. Poster session presented at the Seismological Society of America Annual Meeting in Baltimore, MD.

COLLEGE OF SCIENCE GALILEO CIRCLE SCHOLARS

Tucson, AZ

Ramotso, K., Persaud, P., Omojola, J., Sadler, B. (November 2024) “Investigating Tremor-like Episode at Underground Storage Caverns in Bayou Corne, Louisiana”. Poster session presented at the Galileo Circle Scholars Celebration at the University of Arizona, Tucson, AZ.

RELEVANT COURSEWORK

Introduction to Python

Climate Dynamics

Introduction to Seismology

Exploration Seismology

Introduction to MATLAB

Introduction to Remote Sensing

Introduction to Geophysics

Earth Surface Processes

Physics of the Earth

Global Change

Structural Geology

Principles of Stratigraphy and Sedimentation

Mineralogy

Petrology

STUDENT LEADERSHIP ROLES

ASSOCIATION FOR WOMEN GEOSCIENTISTS, SOUTHERN AZ CHAPTER

Tucson, AZ

Undergraduate Liaison

August 2023 – May 2025

- Creating a bridge between undergraduate, graduate students and faculty to encourage participation within the campus Geosciences community.
- Attended monthly general body meetings and participated in the mentorship program.

CLOUDS-TO-CORE REU PROGRAM

Tucson, AZ

Undergraduate Peer Mentor

May 2023 – August 2023

- Peer-mentored Historically underrepresented and First-Generation Community College and Tribal College Students who plan to pursue a career in Geosciences.
- Weekly one-on-one informal meetings with peer mentees, participated in group activities including team dinners, discussions, and field trips.

EPSILON ETA PRE-PROFESSIONAL ENVIRONMENTAL FRATERNITY

Tucson, AZ

General Member

November 2022 – May 2025

- Focusing on professional development, volunteering with various organizations in the local community, and providing relationships between environmental students and other faculty members on campus to network and build community.
- Vice-President of Diversity, Equity, and Inclusion - Collaborated and planned with other E-Board members on building and fostering an inclusive environment for all, including planning Equity events, and leading themed events, i.e., Black History Month, and Women's History Month.
- Hosted and volunteered at clothing swap events for Z-Mansion, participated in on-campus clean-up, and road clean-up

Curriculum Vitae

BLUE CHIP LEADERSHIP PROGRAM

Tucson, AZ

General Member

August 2021 – May 2025

- Developing leadership skills through communication, collaboration, team building, service, and internship.
- Teaching Assistant - Assisted professors with grading and attendance, planned in-class activities and facilitated final project presentations.
- Volunteered with Blue Chip Leadership and packaged school kits for disadvantaged children during the COVID-19 pandemic at the Tucson Children's Museum.