GENERAL OZOCHIAWAEZE

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EDUCATION

- PhD, Mathematics, Purdue University, Expected: 2026
- MS, Applied Mathematics, New Jersey Institute of Technology, 2021
- BA, Mathematics, Rutgers University, 2018

RESEARCH EXPERIENCE

MIT Lincoln Laboratory

Lexington, MA

Summer Research Intern

May 2022-Aug 2022

- Collaborated with the Advanced Undersea Systems and Technology group to quantify real operational performances of sonar arrays deployed in random ocean environments.
- Designed and implemented signal processing algorithms in MATLAB for active and passive sonar applications.
- Delivered presentations to sponsors and working groups to effectively communicate proposed solutions and completed analysis.

New Jersey Institute of Technology

Newark, NJ

Graduate Researcher

Jul 2020-May 2021

- Implemented computational simulation of acoustic wave scattering in underwater environments in Python, MATLAB, and COMSOL.
- Critically analyzed properties, trends, and features in ocean beds by solving problems in high frequency seafloor acoustics.
- Communicated professionally with faculty to meet deadlines and complete research.

New Jersey Institute of Technology

Newark, NJ

Research Assistant

Oct 2020-May 2021

- Contributed to multi-disciplinary project aimed at improving motion planning for multi-robot systems.
- Analyzed data on the shape formation and assembly of a group of robots via intermittent diffusion and the conjugate gradient method.
- Collaborated and coordinated with faculty and fellow graduate students across departments.

TEACHING AND MENTORING EXPERIENCE

Purdue University

West Lafayette, IN

Graduate Teaching Assistant

Aug 2021-Present

- Lead recitations for undergraduate mathematics courses.
- Graded problem sets, quizzes, examinations, and projects.
- Conducted office hours and tutoring for students.

Little Ivy Academy

Ridgewood, NJ

STEAM Summer Camp Counselor

Jun 2021-Aug 2021

- Passionately taught hands-on classes in robotics, programming smartphone apps in C#, stop animation movies, and website design.
- Successfully managed campers and junior staff with patience and good humor.
- Prepared and maintained lab spaces throughout the day.

New Jersey Institute of Technology

Newark, NJ

Grader

Sep 2020-May 2021

- Assisted course instructors with the grading of exams, assignments, quizzes, and projects.
- Supervised and administered examinations of university students.
- Monitored students during exams to ensure that testing guidelines are followed.

Accel Learning Secaucus, NJ

Math Instructor Aug 2020-Dec 2020

• Taught mini online courses in test preparation for AMC, AIME, Math Kangaroo, and other math competitions.

• Additionally provided 1-on-1 tutoring services for SAT, ACT, and SCAT Test Prep.

New Jersey Institute of Technology

Newark, NJ

Recitation Instructor

Sep 2019-May 2020

- Created supporting lectures for undergraduate math courses and instructed weekly recitation classes.
- Devoted special emphasis to punctuality and worked to maintain outstanding attendance record, consistently arriving to work ready to start immediately.
- Provided on-campus support to students in a receptive, positive, learning-oriented environment.

Mathnasium Glen Rock, NJ

Math Instructor

Sep 2018-Jan 2019

- Employed teaching and learning strategies that cultivated the abilities and intellectual curiosity of students in grades K-12.
- Projected a leadership role onto the students to guide them through each subject and problem.

Penn State Global Programs

University Park, PA

International Student Orientation Leader

Aug 2014-Sep 2014

Helped incoming international students with information and resources for their successful arrival on campus.

RELEVANT SKILLS

- Programming Languages: Python, Java, C++, C#, LaTeX
- Operating Systems: Windows, Linux, UNIX-based systems
- Software: MATLAB, COMSOL, FeNiCs, Mathematica, Maple
- Languages: English, French (Conversational), Reading Knowledge of Latin.

AWARDS AND HONORS

- GEM Fellow, 2022
- Graduate Tuition C/startup Research Grant, New Jersey Institute of Technology, 2021
- Member of Tau Sigma Honors Society for Transfer Students, 2016
- Dean's list, Rutgers University, 2016-2018

PUBLICATIONS

Ozochiawaeze, General, "Finite element modeling of underwater acoustic environments and domain decomposition methods" (2021). Theses. 1837. https://digitalcommons.njit.edu/theses/1837