

Michael Asabere, Ph.D.

CONTACT INFORMATION	2 Andover Road Athens, OH 45701 USA	740-249-7461 mdasabee@gmail.com
EDUCATION	Ohio University , Athens, OH Doctor of Philosophy Degree in Mathematics Graduation date: May, 2024 <ul style="list-style-type: none">• Dissertation Topic: <i>Evolving the architecture of a hybrid neural network with QR decomposition.</i>• Advisor: Professor Martin Mohlenkamp• Relevant Coursework: Artificial Intelligence, Linear Models, Numerical Approximation Theory. Ohio University , Athens, OH Master of Science in Mathematics Graduation date: May, 2020 <ul style="list-style-type: none">• Advisor: Professor Wei Lin• Relevant Coursework: Optimization and Algorithm Design, Mathematical Statistics, Stochastic Calculus in Finance. Kwame Nkrumah University Of Science And Technology , Ghana Bachelor of Science in Mathematics Graduation date: June, 2017 <ul style="list-style-type: none">• Bachelors Thesis: <i>Optimal Allocation Of The University Shuttle Terminals Using Genetic Algorithm</i>• Advisor: Professor Peter Amoako-Yirenkyi• Relevant Coursework: Matrix Algebra, Physics.	
ACADEMIC AND PROFESSIONAL EXPERIENCE	Ohio University , Athens, OH USA <i>Teaching Assistant</i> August 2018 - May 2024 Ohio University , Athens, OH USA <i>Doctoral Researcher</i> August 2020 - May 2024 Kwame Nkrumah University Of Science And Technology , Ghana <i>Teaching Assistant</i> September 2017 - August 2018 Private Tutoring <i>Tutor</i> September 2017 - August 2018 Social Security And National Insurance Trust <i>Data Analyst Intern</i> June 2015 - August 2015	
TAUGHT COURSES	At Ohio University <ul style="list-style-type: none">• MATH 1200: College Algebra• MATH 1300: Pre-Calculus• MATH 1350: Survey of Calculus• MATH 2500: Statistics and Probability At Kwame Nkrumah University Of Science And Technology <ul style="list-style-type: none">• MATH 365: Differential Equations II• MATH 375: Numerical Methods and Computations II• MATH 168: Differential Equations I• MATH 270: Numerical Methods and Computations I	Dates F18, Sp18 F19, Sp19 F20, Sp20, F21, Sp21, F22, Sp22, Su22, F23 Dates F17 F17 Sp17 Sp17

RESEARCH INTERESTS	<ul style="list-style-type: none"> • Machine Learning. • Data Science • Numerical Analysis • Numerical Analysis in High Dimensions • Optimization • Scientific Computing • Ordinary Differential Equations
PAPERS IN PREPARATION FOR SUBMISSION	<ol style="list-style-type: none"> 1. Michael Asabere and Martin Mohlenkamp. Evolving the architecture of a hybrid neural network with QR decomposition; 2024
CONFERENCES WORKSHOPS PARTICIPATION	<ul style="list-style-type: none"> • Ohio University: Multiple and variety of Talks, Seminars (Ranging from Topics in Machine Learning, Numerical Analysis and Statistical Computing); Aug 2018 – May 2024 • Scientific Computing and Industrial Modeling: Organised by National Institute of Mathematical Sciences (NIMS) Ghana; 27th November to 1st December, 2017: Presented on Optimal Allocation Of The University Shuttle Terminals Using Genetic Algorithm.
PROJECT AND PRESENTATIONS	<ul style="list-style-type: none"> • Predicted Fall 2022-23 enrollments in (lower-level) MATH courses on Athens campus of Ohio University using Python. Mathematics Department, Ohio University, Athens, OH; Summer, 2022. • Performed Monte Carlo Simulations for computing expected Interest rates and pricing various types of Options (Call, Lookback, Barrier) using Python. Dr. Feng's Research group. Mathematics Department, Ohio University, Athens, OH; Fall, 2020 • Performed frequency analysis on Electroencephalogram data of a patient with Fast Fourier Transform using MATLAB. Dr. Shen's Research group. Mathematics Department, Ohio University, Athens, OH; Spring, 2019
AWARDS RECOGNITION	<ul style="list-style-type: none"> • College of Arts and Sciences, Ohio University: Graduate Tuition Scholarship Recipient, 2018-2024 Awards
DEPARTMENT UNIVERSITY SERVICE	<ul style="list-style-type: none"> • Student Advising • Overseeing and Mentoring New Teaching Assistants
COMPUTER LITERACY	<ul style="list-style-type: none"> • Computer programming language proficiency <ol style="list-style-type: none"> 1. \LaTeX 2. MATLAB 3. PYTHON 4. SQL 5. R 6. Git • Courseware <ol style="list-style-type: none"> 1. Pearson MyLab Math 2. ALEKS Math 3. WileyPlus • Learning Management System <ol style="list-style-type: none"> 1. Blackboard

SKILLS	<ul style="list-style-type: none"> • Advanced knowledge of mathematics and statistics. • Excellent written and verbal communication skills. • Attention to detail and critical thinking. • Able to manage multiple projects across various timelines. • Productive with both independent and teamwork. • Strong interpersonal and leadership skills. • Highly self-disciplined, self-motivated and results oriented. • Understanding of learners and ability to adapt instruction to diverse learning styles. • Demonstrates a caring approach towards students, providing dedicated support and guidance to foster their success. • Continuously seeks growth and improvement, embracing suggestions and maintaining a mindset of ongoing development.
PROFESSIONAL ORGANIZATIONS	<ul style="list-style-type: none"> • Member of the Mathematical Association of America (MAA) • Member of the Society for Industrial and Applied Mathematics (SIAM)
PROFESSIONAL REFERENCES	<ul style="list-style-type: none"> • Prof. Martin Mohlenkamp, mohlenka@ohio.edu, 740-593-1259 • Prof. Mark Barsamian, barsamia@ohio.edu, 740-593-1273 • Prof. Erik Boczko, boczek@ohio.edu, 740-593-1278 • Prof. Qiliang Wu, wuq@ohio.edu, 740-597-2711 • Prof. Premjit Singh, psinghms@gmail.com, 908-720-5242