ADEBAYO OWOADE

Instructor of Record, Department of Mathematics
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Education

Texas State University, San Marcos, TX — *In Progress*
Ph.D. in Mathematics, Statistics Concentration

Lamar University, Beaumont, TX — *2025*
M.S. in Computational and Quantitative Mathematics

University of Lagos, Lagos, Nigeria — *2018*
Postgraduate Diploma in Applied Geophysics

Ahmadu Bello University, Zaria, Nigeria — *2015*
Bachelor of Science (B.Sc.Ed.) in Physics

Federal College of Education, Nigeria — *2010*
Nigeria Certificate in Education (NCE) in Mathematics/Physics

Graduate Mathematics & Statistics Coursework

Numerical Analysis; Statistical Inference; Advanced Statistical Methods; Design and Analysis of Experiments; Regression Analysis; Time Series Analysis; Predictive Analytics; Data Mining; Derivatives and Risk Management.

Teaching Experience

Texas State University — San Marcos, TX
Graduate Teaching Assistant / Instructor of Record — *2026–Present*

- Instructor of Record: MATH 1316 – Survey of Contemporary Mathematics; responsible for course instruction, assessment, grading, and student academic support.
- Prepare and deliver lectures aligned with departmental learning outcomes; develop assignments, quizzes, and examinations to assess mathematical reasoning and problem-solving skills.
- Hold office hours and provide individualized academic support to strengthen student understanding and academic performance.

Lamar University, Department of Mathematics — Beaumont, TX
Graduate Assistant / Teaching Assistant — *2024–2025*

- Provided instructional and tutoring support in Algebra, Trigonometry, Calculus, Linear Algebra, Contemporary Mathematics, Probability, and Statistics.
- Assisted undergraduate students with mathematical reasoning, quantitative problem solving, examination preparation, and individualized academic support.
- Supported departmental instructional activities while completing graduate study in computational and quantitative mathematics.

Research Interests

Biostatistics; Bayesian Modeling; Statistical Inference; Predictive Analytics; Machine Learning; Healthcare Forecasting; Environmental Risk Modeling; Statistical Learning; Computational Health Research.

Publications

1. Adeoye, K., Ante, D., & Owoade, A. *Fine Particulate Matter (PM2.5) in Urban Environments: A Comprehensive Analysis of Sources, Health Impacts, and EPA-Based Monitoring Methodologies.* World Journal of Biology Pharmacy and Health Sciences, 2025.
2. Adeogun, O.Y., Okunowo, O.O., Owoade, A., Adeboti, L., & Adegbola, B.R. *Delineation of Aquiferous Zones Using Geoelectrical Resistivity Techniques in Oworoshonki, Lagos, Nigeria.* Journal of Research and Review in Science, 2023.

Conference & Academic Presentations

Bayesian Hierarchical Models in Health Insurance Premium Modeling — Graduate Research Conference, Lamar University, 2025.

PCA-Enhanced Feedforward Neural Network Framework for Classifying Healthcare Expenditure — Graduate Seminar, MATH 5383 – Predictive Analytics, Lamar University, 2025.

From Data to Insights to Innovation: Transforming Information into Strategic Breakthroughs in Education — Digital

Learning Technologies Conference, Lamar University, 2024.

Technical & Computational Skills

Programming: Python, R, MATLAB, SQL, Java, C, LaTeX
Statistical/Mathematical: Statistical Inference, Probability, Regression, Bayesian Modeling, Machine Learning, Time Series, Neural Networks, PCA, Forecasting, Experimental Design, Numerical Methods
Visualization/Reporting: Power BI, Tableau, Beamer, Advanced Excel
Research Tools: Git/GitHub, Jupyter Notebook, APIs, ETL Concepts

Honors & Awards

Finalist, Kabir Banerjee Predoctoral Fellowship Program (Weiss Fund), University of Chicago, 2026
Award of Excellence, Department of Mathematics, Lamar University, 2025

Professional Affiliations

American Mathematical Society (AMS) • Society for Industrial and Applied Mathematics (SIAM) • American Statistical Association (ASA)