

AKINOLA OLUWADAMILARE LOKO

Lecturer III, Department of Mathematics | Yaba College of Technology, Lagos

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ACADEMIC PROFILE

Mathematics lecturer, researcher and doctoral scholar in mathematical statistics with over six years of tertiary-level teaching experience. Research interests span statistical distribution theory, time-series forecasting, numerical analysis, computational mathematics and mathematical modelling. Combines rigorous quantitative methods with Python/R-based analysis, AI-assisted research workflows and digital learning technologies. Experienced in designing assessments, analysing learning outcomes and translating mathematical methods into applied, reproducible research.

ACADEMIC APPOINTMENTS & RELEVANT EXPERIENCE

Yaba College of Technology | *Lecturer III, Mathematics* — Lagos, Nigeria **Feb 2019–Present**

- Teach Logic & Linear Algebra, Elementary Algebra, Analytical Geometry, Elementary Trigonometry, Business Mathematics and Calculus across undergraduate and part-time programmes.
- Develop course materials, examinations, marking schemes and digital assessments; compute and analyse student results and use performance data to identify learning gaps and improve instructional decisions.
- Conduct and collaborate on research in mathematical statistics, modelling, numerical analysis and computational mathematics.
- Support technology-enabled learning through virtual classes, online assessments and academic troubleshooting, while maintaining accurate course and examination documentation.
- Academic impact: more than 5,000 students taught, with a reported 97% examination success rate across teaching engagements.

Pentagon Private Academy | *Mathematics Teacher / Academic & Data Lead* — Lagos, Nigeria **2017–2018**

- Taught mathematics to learners aged 5–16 using structured lesson plans, Google Classroom, Zoom and interactive digital boards; supported staff training and academic quality assurance.
- Led digitisation of academic/administrative records and data-informed improvement initiatives; the school recorded a 95% increase in student population and an estimated 90% improvement in overall student performance during the wider rebranding programme.

EDUCATION

Ph.D. Mathematics (Mathematical Statistics) — Lagos State University **2024–Present**
Research area: Convolution of T-X distributions.

M.Sc. Mathematics — Lagos State University **2022–2024**
Thesis: “Modeling and Forecasting PZ Cussons Nigeria Plc. Daily Stock Prices Using SARIMA” — implemented with Python.

Postgraduate Diploma in Education — Lagos State University **2019–2021**
Research: Influence of Availability and Usage of Learning Materials on Academic Performance of Primary School Pupils in Lagos State.

B.Sc. (Hons.) Mathematics — University of Ibadan **2010–2015**
Final-year project: “Philosophy of Dynamic Mathematical Modelling.”

PUBLICATIONS

- Idowu, G. A., Loko, A. O. & Abass, A. F. (2025). “Modeling and Forecasting PZ Cussons Nigeria PLC Daily Stock Prices Using SARIMA: An Empirical Analysis.” Quest Journal of Research in Applied Mathematics, 11(9), 42–50. <https://doi.org/10.35629/0743-11094250>
- Felix, I. C., Popoola, S. O., Loko, A. O., Olusan, B. O., Olawuni, O. S., Nwagwo, A., Ogunbayo, T. O. & Enobabor, E. O. (2025). “A symmetric hybrid multistep method with minimum phase-lag for special second-order IVPs.” Earthline Journal of Mathematical Sciences.
- Loko, A. O. & Olawuni, O. S. (2024). “A Mixed-Methods Analysis of Academic Performance in Nigeria: Blending Quantitative Forecasting with Qualitative Insights.” Journal of Business and Educational Policies.

RESEARCH & SCHOLARLY CONTRIBUTIONS

- Data Scientist, Ph.D. research team (2022): applied Python-based analysis to “Stochastic Analysis of Vaccines on COVID-19,” a data-driven doctoral study submitted to the University of Science, Art and Technology, Montserrat.
- Current doctoral research: development and study of convolution-based T-X distributions within mathematical statistics, with emphasis on distributional theory and computational evaluation.
- Research themes: statistical modelling and forecasting; computational mathematics; numerical methods for differential equations; educational outcomes analytics; applied mathematical modelling.

CONFERENCE CONTRIBUTIONS

- Loko, A. O. & Olawuni, O. S. (2024). “Forecasting Educational Outcomes: A Comparative Analysis of National vs. International Systems Using the SARIMA Model.” National Association of Policy Educators Conference.
- Felix, I. C., Popoola, S. O., Loko, A. O., et al. (2025). “A symmetric hybrid multistep method with minimum phase-lag for special second-order IVPs.” International Conference on Mathematical Sciences and Optimization.

AI, COMPUTATIONAL & DIGITAL RESEARCH SKILLS

AI-assisted research	Literature discovery/synthesis, research-question refinement, structured prompting, evidence cross-checking, reproducible drafting and responsible human verification.
Data analysis & modelling	Python, R, SQL, SPSS, Minitab, Excel; time-series analysis, statistical modelling, forecasting, data cleaning, visualisation and interpretation.
Programming & research automation	Python scripting for analysis and workflow automation; AI-assisted code prototyping, debugging, documentation and analytical reproducibility.
Web & digital development	Web component development using Java technologies; Git/GitHub; AI-assisted prototyping and debugging of web-based academic/data tools; LaTeX and digital learning platforms.

PROFESSIONAL QUALIFICATIONS & MEMBERSHIPS

Member, Nigerian Mathematical Society • Qualified Teacher Status (England), 2025 • Certified Teacher, TRCN, 2023 • Web Component Development using Java Technologies, NIIT, 2013 • IT Essentials, NITDA, 2016

ACADEMIC SERVICE & TEACHING TECHNOLOGIES

Examination design, invigilation & moderation support • Academic performance analytics • Virtual-class support • Google Classroom • Zoom • Testportal • Interactive digital boards • LaTeX