Dela Akpalu

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Objective

Dedicated and passionate educator with a strong foundation in mathematics, statistics, and data analysis. Committed to fostering intellectual curiosity and academic excellence through inclusive, student-centered instruction. Experienced in mentoring diverse learners and integrating technology into problem-based learning. Eager to contribute to mathematics and statistics program that emphasizes rigor, real-world relevance, and prepares students for success in higher education and lifelong learning

Teaching Experience

Wake Forest University – Teaching Assistant (August 2023 – May 2025)

- Assisted students in data analysis, statistics, and visualization, providing hands-on guidance using R and Python.
- Conducted tutoring sessions and study groups to reinforce statistical concepts and analytical methods.
- Graded assignments and provided constructive feedback to support student learning and development.

Kwame Nkrumah University of Science and Technology – Teaching Assistant (2020 – 2022)

- Led undergraduate classes in experimental design, algebra, calculus, and statistical methods, using a student-centered, discussion-based approach.
- Developed and delivered engaging lessons that made abstract math concepts accessible and relevant.
- Mentored students in academic research and data projects, emphasizing collaborative problem-solving and critical thinking.

Skills

Teaching and Mentorship

- Designed engaging lesson plans using real-world examples to simplify complex mathematical concepts.
- Fostered curiosity through interactive teaching methods, including visual aids and hands-on activities.
- Provided individualized support to students, improving comprehension and engagement.
- Comfortable transitioning to a high school setting and applying university-level teaching experience to younger learners.

Integration of Technology in Education

- Utilized tools like Google Classroom and Kahoot! to create interactive assignments and quizzes.
- Incorporated multimedia presentations and data visualization techniques to illustrate abstract concepts.
- Led technology-driven workshops, teaching students to use statistical software for data analysis.

Mathematical and Statistical Expertise

- Developed project-based learning activities where students analyzed real-world datasets to understand key statistical concepts.
- Simplified advanced topics in probability and regression analysis using practical, relatable examples.
- Designed interactive exercises, such as hands-on probability experiments, to engage students in statistical learning.

Education

Wake Forest University – M.S. in Statistical Science (August 2023 – May 2025)

- Relevant Coursework: Statistical Learning, Probability, Data Visualization, Bayesian Statistics

African Institute for Mathematical Sciences – Structured Masters in Data Science (2022 – 2023)

- Thesis: An Improved Model for Nowcasting Stock Markets Using Machine Learning

Kwame Nkrumah University of Science and Technology – B.S. in Statistics (2016 – 2020)

- Thesis: Survival Analysis of Breast Cancer Patients in Ghana: A Comparative Case Study

Awards and Certifications

- Distinguished Teaching Assistant Award (2025) – Department of Statistical Sciences, Wake Forest University
- Data Science Certificate – Department of Computer Science, Wake Forest University