Lilian Ngonadi

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Portfolio, ResearchGate , LinkedIn , GitHub

EDUCATION

North Carolina State University, USA   **Raleigh,**

Master of Statistics   **3rd May 2025**

Nnamdi Azikiwe University   **Anambra State, Nigeria**
Master of Science (M.Sc.) in Statistics   **Jan. 2017 - Sept. 2019**
Distinction - 4.65/5.0 Link**(WES -** *3.83/4.0* | Link**)**
Thesis Title: *Alphabetic optimality Criteria For 2^k Central Composite Design*

Nnamdi Azikiwe University   **Anambra State, Nigeria**
Bachelor of Science (B.Sc.) in Statistics   **Oct. 2011 - Aug. 2015**
First Class (Honors) - 4.57/5.0 Link**(WES -** *3.75/4.0* | Link**)**
Thesis Title: *Statistical Analysis on the Contributions of Some Economic sectors to Nigeria GDP.*

Relevant Coursework: Machine learning, R programming, Python programming, Multivariate and Longitudinal Analysis, Design and Analysis of Experiments, Advanced Regression Analysis, Advanced Nonparametric Methods, Operations Research, Stochastic Process, Statistical Inferences, Advanced Sampling Theory, Special Probability Distribution, Advanced Probability Theory, Advanced Multivariate Methods,

RESEARCH EXPERIENCE

Researcher | North Carolina State University   **Raleigh, United States of America (USA)**   **Aug. 2023 – May 2025**
Research Title: Modeling Customer Churn Using Supervised Machine Learning Models

- Applied Regression Modelling, Random Forest and Extreme Gradient Boosting Machine algorithms to analyze data related to customer churn
- Developed a model to predict if a customer will churn or not based on their financial records in the bank.

Undergraduate Research | Nnamdi Azikiwe University   **Anambra State, Nigeria**
Department of Statistics   **Jan. 2015- July 2016**
Supervised by: Prof. Uzuke Chinwe
*Research Title***:** Statistical Analysis on the Contributions of Some Economic sectors to Nigeria GDP.

- The project contained an Autoregressive and a regression model on the contributions of three sectors (Industry, Building and construction, Service) to the Nigeria Gross Domestic Product (GDP).
- Data used for the project was collected yearly from 1983 to 2013, from Central Bank of Nigeria (CBN) Statistical Bulletin published on their website.
- Assessed how each of these sectors contributes to Nigeria GDP and which one plays major role to the Economy

TEACHING EXPERIENCE

Data Science Tutor | Department of Statistics   *Nnamdi Azikiwe University* | **Jun. 2023 - Present**

- Over 380 undergraduates were effectively taught **Introduction to Data Science and Statistics**, supervised, marked, and graded in data science course.

- Taught students essential Python packages for data science, including NumPy for numerical computations, Pandas for data manipulation, Matplotlib for data visualization, Seaborn for statistical graphics, Scikit-learn for machine learning, and TensorFlow for deep learning.
- This tools equipped students with the skills to handle data analysis, visualization, and predictive modeling efficiently

Lecturer | Department of Statistics   *Nnamdi Azikiwe University | Sept*. **2019 - Present**

- Undergraduates were effectively taught, supervised, marked, and graded in assignments, tests, and exams by me.
- Correctly prepared and uploaded their results to the university portal. In addition, I taught students in STA 201- Introduction to Statistics I, STA 202- Introduction to Statistics II. STA 331- Analysis of Variance, STA 371- Operation Research, STA 431- Design and Analysis of Experiment and STA 471-Operation Research II

WORK EXPERIENCE

Lecturer I| Department of Statistics   [link]   *Nnamdi Azikiwe University | Oct*. **2023 - Present**

- Over 150 undergraduates were effectively taught, supervised, marked, and graded in assignments, tests, and exams by me.
- I also correctly prepared and uploaded their results to the university portal. In addition, I taught students in STA 331- Analysis of Variance, STA 371- Operation Research, STA 431- Design and Analysis of Experiment and STA 471-Operation Research II

Mathematics Teacher| PreciousBen International School.   *Kano State, Nigeria* | *Sept*. **2010- Aug. 2011**
- Grade 5 students were effectively taught, supervised, marked, and graded in assignments, tests, and exams by me.
- Held Parents' Day were i informed the parents about their kids' performance.
- Prepare lesson materials and writing aids for the students.

AWARDS AND HONOURS

- **Dean of Physical Science award** - *The best-graduating female student, department of Statistics Nnamdi Azikiwe University, Awka.* [Link]   **2015**
- **Head of Department Award** – *Most Intelligent Female, Department of Statistics Nnamdi Azikiwe University, Anambra State, Nigeria.* [Link]   **2015**

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

- AI fundamentals |[DataCamp AI Skill Verification]
2024
- Create Machine Learning Models in Microsoft Azure | [Coursera]   2024
- Microsoft Azure Machine Learning| [Coursera]   2024
- Applied Data Science Lab | WorldQuant University, USA | [Credly Badge]
   2023
- Human Skill Course | [Coursera Certificate]

2023

SKILLS

Computational Skills: Proficient in R, Python, Design Expert, LATEX, PowerBI, Excel and Sql.

Administrative Skills: Organizing every data collected and making sure data integrity is maintained throughout the process.

Research Techniques: Data Science, Machine Learning, Experimental Design, Data visualization using PowerBI, and Tableau.

Soft Skills: Excellent communication and teamwork; attention to detail

PROFESSIONAL AFFILIATIONS

- EducationUSA Scholar (*Membership ID*: G000407)   2021 - 2023
- Member, International Biometric Society (IBS)   2019 - Present
- Academic Staff Union Universities (ASUU)   2019 – Present
- Nigerian Statistical Association   Link   2019- Present