

Kezong Lois Akundo

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OBJECTIVES

Motivated and research-driven Data Science major with a foundation in Bayesian statistical modeling, predictive analytics, GIS-based spatial analysis, and interactive dashboard development. Passionate about applying computational and statistical methods to address environmental and public health challenges, particularly in disaster-related exposure and health-outcome modeling. Committed to growing in the fields of Health Informatics, Biostatistics, and Data Science to support interdisciplinary research in environmental health prediction, uncertainty quantification, and data-driven policy.

EDUCATION

Warren Wilson College, Swannanoa, NC

Bachelor of Science in Data Science & Business | Expected May 2026

GPA: 3.5 / 4.0

Honors: Milepost One Full-Tuition Scholarship, Sullivan Fellowship, Presidential Scholarship, International Student Leadership Award, Student Excellence Award

CAPSTONE THESIS

Bayesian Predictive Modeling and GIS-Based Risk Classification of Post-Hurricane Environmental and Respiratory Health Vulnerability in Asheville, NC Using Current and Synthetic Census-Tract Data

- Integrating FEMA, CDC, and SVI data at the census-tract level to assess post-hurricane vulnerability
 - Developing Bayesian and machine learning models (logistic regression, random forest, clustering) to identify high-risk areas
 - Creating GIS-based maps with spatial analysis and uncertainty visualization to highlight respiratory and environmental risk patterns
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RELEVANT COURSEWORK

Bayesian Statistics, GIS & Spatial Analytics, Machine Learning, Data Visualization (R & Python), SQL Databases, Quantitative Decision-Making, Applied Statistics I&II, Statistical modeling and Natural Sciences, Calc I, Biology

EXPERIENCE

Undergraduate Researcher — Warren Wilson College, NC | 2024—Present

- Designed Bayesian-GIS models for environmental exposure and respiratory health outcomes
- Developed synthetic health datasets for uncertainty-aware prediction
- Collaborated on ethical communication of public-health data

Data Analyst Intern — PolicyCON, Remote | Spring 2024

- Built real-time Grafana dashboards and Azure-PostgreSQL pipelines
- Automated reporting workflows using Python and Jupyter
- Improved organizational data-processing efficiency

AI & Data Science Extern — Paragone AI, Remote | Winter 2024

- Applied NLP to behavioral-health transcripts
- Conducted topic modeling and pattern discovery

Data Research Intern — UNESCO Asheville, NC | Summer 2024

- Modeled student well-being using mixed-method data
- Built interactive dashboards for environmental indicators
- Presented findings to interdisciplinary partners

IT & Data Science Crew Member — Warren Wilson College, NC | 2023–Present

- Supported campus data infrastructure and analytics needs
- Maintained SQL dashboards and digital systems
- Tutored peers in data science and statistics

TECHNICAL SKILLS

Programming & Analytics: Python, R, SQL, PostgreSQL, MATLAB,

Statistical Modeling: Bayesian Inference, Regression, MCMC, Time-Series, Predictive Modeling

Data Visualization: ggplot2, Matplotlib, Plotly, Grafana

Libraries: NumPy, Pandas, Scikit-learn, PyMC, ArviZ, Matplotlib, ggplot2

GIS & Spatial Tools: QGIS, ArcGIS, Geopandas

Cloud & Software: Azure, JupyterLab, Git/GitHub, Visual Studio Code

Web & Design: HTML, JavaScript, Tableau

Productivity: Microsoft Excel, Word, PowerPoint

LEADERSHIP

Resident Assistant — International Dorm | 2024–Present

President — Black Student Union | 2023–2024

Diversity & Inclusion Fundraising Coordinator | 2023

Data Science Department Tutor and Teacher Assistant — Warren Wilson College | 2024–Present

Intern Leader — Global Nomads | 2024–2025