

Education

Oklahoma State University	May 2026(Expected)
<i>PhD. Statistics</i>	<i>Stillwater, OK</i>
Youngstown State University	2019 - 2021
<i>MS. Mathematics</i>	<i>Youngstown, OH</i>
Kwame Nkrumah University of Science and Technology	2013 - 2017
<i>BSc. Actuarial Science</i>	<i>Kumasi, Ghana</i>

Professional Exams and Qualifications

Statistics for Risk Modeling (SOA) • Financial Mathematics (SOA) • Probability (SOA) • SAS Certified Associate (SAS Global)

Technical Skills and Expertise

Microsoft Excel, Python, R, SQL, Excel VBA, Power BI, SAS, KNIME, Weka

Work Experience

Milliman Life Technology Solutions(LTS)	May – August 2024
<i>Actuarial Intern</i>	<i>Chicago, Illinois</i>

- Conducted economic impact analysis from changes in models' input files, assumptions, and scenarios.
- Created a tool for generating scenarios for model pre-production using Python, attaining about 90% efficiency.

Milliman Life Technology Solutions(LTS)	May – August 2023
<i>Actuarial Intern</i>	<i>Chicago, Illinois</i>

- Developed an interactive dashboard of yield curves using Microsoft Power BI as a basis for a yield curve scenario generation process.
- Conducted in-depth analysis into the liquidity and illiquidity of three different market structures, revealing interesting but important information about the performance of the various markets.

Milliman Financial Risk Management(FRM)	June – August 2022
<i>Actuarial Intern</i>	<i>Chicago, Illinois</i>

- Streamlined and automated attribution reports analysis using Excel VBA, leading to about 80% reduction in reporting time.
- Automated the process of producing financial disclosures using Excel VBA, resulting in efficiency in producing financial disclosures and reducing reporting time by about 85%.

Some Selected Publications

- Predicting Road Accident Injury Severity for Drivers in Automobile Crashes in United States Using Machine Learning Models and AI.
- Bootstrap Regression for Investigating Macroeconomics Factors Affecting USA Home Prices.
- Modeling Health Insurance Premium Using Bayesian Hierarchical Model.

Awards & Honors

VIK Family Research Fellowship	May 2025
<i>Oklahoma State University</i>	

Outstanding Graduate Teaching Assistantship Award	December 2024
<i>Oklahoma State University</i>	

International Association of Black Actuaries Achievement Award	May 2024
<i>International Association of Black Actuaries (IABA)</i>	

International Association of Black Actuaries Achievement Award	May 2022
<i>International Association of Black Actuaries (IABA)</i>	

Outstanding Graduate Student in Statistics award	May 2021
<i>Youngstown State University</i>	

Some Leadership / Extracurricular Activities

Mathematics and Computer Science Judge	2025
<i>Oklahoma State Science and Engineering Fair</i>	

- Reviewed students' innovative projects in science, mathematics, Machine Learning, and Artificial Intelligence, and provided constructive comments and suggestions to encourage and enhance students' development in STEM.