

Education

Oklahoma State University <i>PhD. Statistics</i>	May 2026 – Expected <i>Stillwater, OK</i>
Youngstown State University <i>MS. Mathematics</i>	2019 - 2021 <i>Youngstown, OH</i>
Kwame Nkrumah University of Science and Technology <i>BSc. Actuarial Science</i>	2013 - 2017 <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) <i>Actuarial Intern</i>	May – August 2024 <i>Chicago, Illinois</i>
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- 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) <i>Actuarial Intern</i>	May – August 2023 <i>Chicago, Illinois</i>
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- 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) <i>Actuarial Intern</i>	June – August 2022 <i>Chicago, Illinois</i>
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- 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%.

Selected Peer Review Papers and Projects

- 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 <i>Oklahoma State University</i>	<i>May 2025</i>
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Outstanding Graduate Teaching Assistantship Award <i>Oklahoma State University</i>	<i>December 2024</i>
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International Association of Black Actuaries Achievement Award <i>International Association of Black Actuaries (IABA)</i>	<i>May 2024</i>
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International Association of Black Actuaries Achievement Award <i>International Association of Black Actuaries (IABA)</i>	<i>May 2022</i>
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Outstanding Graduate Student in Statistics award <i>Youngstown State University</i>	<i>May 2021</i>
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Some Leadership / Extracurricular Activities

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