Theophilus Anim Bediako

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Education

Baylor University	**Waco, Texas**
PhD in Statistics, GPA 3.95/4.0	*Summer 2023 – 2027(Expected)*
South Dakota State University	**Brookings, South Dakota**
MS Mathematics - Statistics, GPA 3.67/4.0	*Fall 2021 – Spring 2023*
University of Cape Coast	**Cape Coast, Ghana**
Bachelor of Education(Mathematics), GPA 3.9/4.0	*Fall 2016 – Summer 2020*

Skills & Competencies

Technical: R/RStudio/Positron (Tidyverse, Keras & Package Development), SQL, Python(Pandas, Statmodels, Scikit-learn), SAS, PowerBI, familiar with *zsh shells, html and css*

Git/Github, Docker (Basic knowledge), LaTeX, **JAGS/Stan**

Soft Skills: Data storytelling, cross-functional collaboration, and continuous learning mindset

Relevant Courses: Advanced Data Driven Methods, Statistical Programming, Survival Analysis, Bayesian Methods, Clinical Trial, Computational Statistics, Modern Applied Statistics, Advanced Linear Algebra

Relevant Professional Experience

Statistical Consultant, Baylor-Alcon Pharmaceutical Collaboration   **Summer 2025 - Present**
Department of Statistical Science, Baylor University   *Waco, TX*

Developing statistical methods for subgroup heterogeneity and selection bias correction in clinical trial and ophthalmology studies, intended to support more reliable go/no-go decisions for subsequent trial phases.

Associate Collaborator, Statistical Consulting Center   **Summer 2024 - Present**
Department of Statistical Science, Baylor University   *Waco, TX*

Conducted statistical analyses for 20+ client projects across medicine, public health and geoscience
Worked with clients to design studies, validate methods, and communicate results to non-statisticians

Graduate Teaching Assistant   **Fall 2023 - Spring 2024**
Department of Statistical Science, Baylor University   *Waco, TX*

Led weekly instructional sessions for Introduction to Statistical Methods (50+ undergrads)
Implemented student-centered teaching strategies to increase students' participation and confidence

Graduate Teaching Assistant, SAS programming   **Spring 2023**
Department of Mathematics & Statistics, South Dakota State University   *Brookings, SD*

Mentored students through coding assignments and projects, providing individualized feedback
Graded and evaluated coursework 40+ students

MIS Analytics Intern (Risk Management Team)   **Summer 2022**
First Premier/Premier BankCard; Tools: SQL, Power BI, Excel   *Sioux Falls, SD*

Analyzed SQL-based call data to determine optimal time to reach defaulting customers, boosting debt recovery
Built Power BI dashboards analyzing call center attrition trends (2018–2021) intended to support strategies for employee retention and save recruitment cost
Partnered with cross-department interns to propose retention initiatives, presented to executive management

Certifications

Base SAS Programming, Tools for Data Science, Learning Python

Projects

- Development of "Immuduo" for multiple sclerosis from Phase I to Phase III, including trial design, dose selection, and evaluation of safety and efficacy endpoints, utilizing **EAST Horizon software** for trial simulations.
- Covariance-based clustering for classification with applications in forensic investigation   *Link*
- Exploring different time series models using South Dakota temperature data   *Link*
- Compared regularized regression vs. OLS on WHO life expectancy data; results shared on GitHub *Link*