Theophilus Anim Bediako

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Education

Baylor University	**Waco, Texas**
PhD in Statistics	*July 2023 – 2027(Expected)*
Baylor University	**Waco, Texas**
MS Statistics	*Spring 2025(Expected)*
South Dakota State University	**Brookings, South Dakota**
MS Mathematics - Statistics	*Aug 2021 – May 2023*
University of Cape Coast	**Cape Coast, Ghana**
Bachelor of Education(Mathematics)	*Aug. 2016 – July 2020*

Skills & Competencies

- **Technical**: R/RStudio(Rmarkdown, Quarto for document preparation), SQL, Python, SAS, PowerBI, basic experience with *zsh shells, html and css*
- **Git/Github, Docker** (Basic knowledge), LaTeX, **JAGS/Stan**
- **Non-technical skills:** Strong analytical skills, effective communication skills, problem-solving, knowledge transfer-ability and responding appropriately to feedback
- **Relevant Courses:** Survival Analysis, Bayesian Methods, Clinical Trial , Computational Statistics, Statistical Programming, Modern Applied Statistics, Regression Analysis, Advanced Linear Algebra

Professional Experience

- **Graduate Assistant, Statistical Consulting Center**   **Summer 2024 - Present**
  Department of Statistical Science, Baylor University   *Waco, Texas*
  Methods: **T-test, Wilconxon rank, Cochran M.H, Chi-square, prop.test, sample size, ggplot**
  Comparing needle chest decompression site location, accuracy in females by U.S Army medics
  Computed Tomography of the Abdomen and Pelvis(CTAP) ordering in the Emergency Dept
  Survey data analysis for Department of Social Work, Baylor

- **Graduate Teaching Assistant**   **Fall 2023 - Spring 2024**
  Department of Statistical Science, Baylor University   *Waco, Texas*
  Led weekly supplemental instruction (SI) for Introduction to Statistical Methods
  Implemented student-centered approach to boost students confidence in communicating ideas

- **Graduate Teaching Assistant, SAS programming**   **Spring 2023**
  Department of Mathematics & Statistics, South Dakota State University   *Brookings, South Dakota*
  Offered personalized code reviews and feedback to students SAS projects
  Graded students' tests, class activities, and online discussions

- **MIS Analytics Intern (Risk Management Team)**   **Summer 2022**
  First Premier/Premier BankCard; Tools: SQL, Power BI, Excel   *Sioux Falls, SD*
  Comparative analysis of PREMIER best time to call accounts versus neustar's best time to call accounts of defaulting customers
  Created a Power Bi dashboard showing call center employee attrition from 2018 to 2021
  Collaborated with interns from other departments to investigate call center employee attrition, proposed solutions, and presented results to top-level management

Projects

- Covariance-based clustering for classification   *Link*
- Tracing the source and brands of small arms propellants; Classification and inference techniques on unexploded improvised explosive devices(IEDs) and recovered particles of exploded improvised explosive devices(IEDs)
- Dry beans classification and price prediction
- Exploring different time series models using South Dakota temperature data   *Link*
- Causal inference on the relationship between grain yield and seeding rate using data from 2017 - 2020
- Regularized regression versus ordinary least squares; Model comparisons using WHO's life expectancy data *Link*