

Asabere Kwabena Asante

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EDUCATION

Johns Hopkins University	Baltimore, MD
Master of Business Administration	May 2025
Master of Public Health in Biostatistics and Epidemiology	May 2025
Relevant courses	
<ul style="list-style-type: none">• Statistical methods• Epidemiologic Methods• Longitudinal and Multilevel Data Analysis• Survival analysis• Statistical programming• Causal inference	
University of Ghana Medical School	Accra, Ghana
Bachelor of Medicine, Bachelor of Surgery	Sep 2018

RESEARCH EXPERIENCE

Johns Hopkins University, Department of Epidemiology
Graduate Research Assistant
<ul style="list-style-type: none">• Conducts systematic reviews and meta-analyses on HIV/AIDS among key populations, identifying disparities and intervention gaps.• Develops statistical and predictive models to assess the impact of interventions using Python and R for data analysis, cleaning, and visualization.
Prediction of Mortality Using NHANES Data.
<ul style="list-style-type: none">• Built machine learning models (Logistic Regression, SVM, Random Forest, XGBoost) to predict mortality risk among middle-aged and elderly men using NHANES data.• Applied causal inference methods to examine socioeconomic and biological risk factors, providing insights into long-term public health strategies.
Longitudinal Study on Aortic Valve Surgery Outcomes (Clinical Research Project)
<ul style="list-style-type: none">• Developed a linear mixed-effects model to analyze predictors of left ventricular mass regression post-surgery.• Identified patient characteristics influencing cardiovascular recovery, providing actionable insights for personalized medical interventions.
Heart Disease Mortality Prediction
<ul style="list-style-type: none">• Developed a Cox proportional hazards model to identify key patient characteristics associated with heart failure mortality.• Applied advanced survival analysis methods, providing actionable insights for clinical risk stratification and patient management.

PROFESSIONAL EXPERIENCE

Abrafi Women and Children's Hospital	Ghana
Physician & Clinical Manager	May 2019 - Jun 2023
<ul style="list-style-type: none">• Led the implementation of electronic health records (EHRs), improving patient data accuracy and decision-making.	

- Designed data-driven strategies that optimized hospital staffing and resource allocation by 15%, reducing service delays.
- Utilized SQL to analyze patient trends, improving key performance indicators like infection rates and medication adherence.

TECHNICAL SKILLS

Statistical & Epidemiological Methods

- Causal Inference (Instrumental Variables, Propensity Score Matching, Difference-in-Differences, Inverse Probability Weighting, Marginal Structural Models)
- Survival Analysis (Cox Proportional Hazards, Kaplan-Meier, Competing Risks)
- Longitudinal & Mixed-Effects Modeling (GLMM, GEE, Bayesian Hierarchical Models)
- Predictive Modeling & Risk Stratification (LASSO Regression, Elastic Net, Classification Trees, ROC Curve Analysis)
- Exposure & Outcome Assessment (Attributable Risk, Population Attributable Fraction, Sensitivity & Specificity Analysis)

Programming & Data Analytics

- R (Tidyverse, Tidymodels, Shiny, Quarto, Epidemiological Data Analysis, Regression Modeling)
- SQL (Data Extraction, Query Optimization, Database Management)
- Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch)

Version Control: Git & GitHub (Collaborative Research, Code Reproducibility)

Data Visualization & Reporting

- ggplot2, Matplotlib, Seaborn (Advanced Statistical Graphics)
- R Markdown & Quarto (Reproducible Research & Reporting)