

ENOCK ADU BONSU

PhD Student in Biostatistics · University of Arizona

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EDUCATION

PhD, Biostatistics — University of Arizona	2024 – expected 2028
MS, Statistics — Western Michigan University	2024
BSc, Mathematics — University of Mines and Technology, Ghana	2018

RESEARCH INTERESTS

Algorithmic fairness in clinical AI · missing data and MNAR sensitivity analysis · survival analysis · Bayesian nonparametrics and network models · global child and maternal health · public health emergency management capacity building.

CURRENT POSITIONS

Research Analyst — Africa Centres for Disease Control and Prevention	2024 – present
Systematic landscape analysis of Public Health Emergency Management (PHEM) competency-based training programs across African Member States, PRISMA 2020-aligned.	
Bio BI Analyst (Intern) — Arizona Dept. of Health Services, HIV Prevention Program	2026 – present
Power BI dashboards and a data-dictionary crosswalk supporting Arizona's CDC-funded HIV Testing Program.	
Education Lead (Intern) — Envision by WorldStrides	2025 – present
Leads a multidisciplinary team delivering STEM curricula across robotics, medicine, and forensic science tracks.	

PRIOR EXPERIENCE

Statistical Programmer — Western Michigan University	2024
Statistical Researcher — WorldStrides Educational Travel	2022 – 2024
Data Analyst / Survey Monitor — Ghana Statistical Service	2018 – 2022
National census and health-survey operations; statistical consulting with the World Bank, UNICEF, WHO, and WFP.	

SELECTED PUBLICATIONS

- Adu Bonsu, E. et al. (2024). Leveraging Machine Learning for Early Detection and Management of Diabetes and Parkinson's Disease. *General Principles & Innovations*. DOI: 10.55248/gengpi.5.1124.3133
- Agyekum, L. et al., incl. Adu Bonsu, E. (2026). Machine Learning and the Random Walk Puzzle: Forecasting the CAD/USD Exchange Rate. *arXiv preprint arXiv:2606.15058*.
- 3 manuscripts under review — *BMC Public Health, Statistics and Computing, International Journal of Data Science and Analytics*

Full publication list available on personal website or upon request.

SELECTED PRESENTATIONS

- Alzheimer's Association International Conference (AAIC) 2026 — Timing of First Alzheimer's Neuroimaging
- APHA Annual Meeting 2026 — Childhood Anemia in Ghana, Nigeria, and Tanzania (accepted, oral presentation)
- MEZCOPH Poster Forum, University of Arizona (2026) — A Game-Theoretic Framework for Algorithmic Bias Detection

AWARDS

- Zuckerman Family Foundation Scholarship — University of Arizona (2026)
- Outstanding Excellence in Cultural Diversity Certificate — Western Michigan University (2024)

SKILLS

R (tidyverse, survival, mice, randomForest, xgboost, geepack, brms, survey) · LaTeX · Quarto · Power BI · GEE · multiple imputation · network analysis (ERGM) · Bayesian nonparametrics

PROFESSIONAL SERVICE

- Peer Reviewer, Journal of Statistics and Data Science Education (2025–present)
- Member: American Statistical Association · International Biometric Society · Society for Epidemiologic Research · International Society for Clinical Biostatistics