Francis Eyiah-Bediako

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RESEARCH

Areas: General Health Professions · Pediatrics, Perinatology and Child Health · Public Health, Environmental and Occupational Health · Statistics and Probability · Biomedical Engineering · Cardiology and Cardiovascular Medicine

RESEARCH SUMMARY

19	18	2	0	1.30	8%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 19 publications listed below, 2008–2026. Field-weighted impact is the mean over the 12 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 12 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Junior Research Fellow 2025–present
Department of Economics, Heberger Business School, St. Cloud State University, Saint Cloud, United States

PUBLICATIONS

Journal articles 17

1. Francis Ayiah-Mensah, Emmanuel Mensah Baah, **Francis Eyiah-Bediako**, Luyton Asare, Emmanuel Kyei Baffour (2026). A Robust Multilevel and Uncertainty-Aware Analysis of Prevalence, Inequality and Treatment Gaps in Diabetes Burden in West Africa (1990-2022). *Asian Journal of Research in Nursing and Health*. https://doi.org/10.9734/ajrnh/2026/v9i1353
2. Bosson-Amedenu, Senyefia, **Eyiah-Bediako, Francis**, Anafo, Abdulzeid Yen (2026). Additional file 1 of Malaria incidence, severity and mortality in children under five in Ghana: evidence from generalised additive models. *Figshare*. https://doi.org/10.6084/m9.figshare.31367280.v1
3. Senyefia Bosson-Amedenu, **Francis Eyiah-Bediako**, Abdulzeid Yen Anafo (2026). Malaria incidence, severity and mortality in children under five in Ghana: evidence from generalised additive models. *BMC Public Health*. https://doi.org/10.1186/s12889-025-25931-y
4. Francis Ayiah-Mensah, Felix Ilesanmi Alao, Senyefia Bosson-Amedenu, **Francis Eyiah Bediako**, Mohammed Frempong (2026). Modelling Unequal Progress in Reproductive, Maternal, and Newborn Health Coverage, Using Fractional Logit Generalised Estimating Equations (GEE) Analysis. *Asian Journal of Pregnancy and Childbirth*. https://doi.org/10.9734/ajpcb/2026/v9i1225
5. Francis Ayiah-Mensah, Cynthia Ama Mensah, **Francis Eyiah-Bediako**, Emmanuel Asare Ayim, Anthony Joe Turkson (2026). Quantifying Inequality, Volatility, and Stability in Early Postnatal Care Coverage by Multilevel Beta Regression. *International Journal of Research and Reports in Gynaecology*. https://doi.org/10.9734/ijrrgy/2026/v9i1156
6. Francis Ayiah-Mensah, Cynthia Ama Mensah, **Francis Eyiah-Bediako**, Emmanuel Asare Ayim, Anthony Joe Turkson (2026). Separating the Temporal Dynamics and Wealth Inequalities in Early Childbearing: Multilevel Statistical Analysis. *Advances in Research*. https://doi.org/10.9734/air/2026/v27i11575

7. Francis Ayiah-Mensah, **Francis Eyiah-Bediako**, Vivian Nimoh, Mathias Gyamfi, Emmanuel Kyie Baffour (2026). Statistical Advances in Child Survival Modelling: A Data-driven Nonlinear Analysis of Under-Five Survival Inequalities in Ghana. *Journal of Scientific Research and Reports*. https://doi.org/10.9734/jsrr/2026/v32i23949
8. NKANSAH BISMARK K., **Francis Eyiah-Bediako** (2025). Grouping Scheme Discriminant Canonical Correlation Analysis for Time-Dependent Multivariate Data Structure. *Journal of Intelligence Technology and Innovation*. https://www.itiptw.com/JITI/JITI-98-DOI-001.pdf
9. Francis Ayiah-Mensah, **Francis Eyiah-Bediako**, Harry Darko Bonsu, Emmanuel Asare Ayim, Luyton Asare (2025). Modelling Early Childbearing as a Bounded Outcome: Adolescent Fertility in Countries and Socioeconomic Strata. *Journal of Complementary and Alternative Medical Research*. https://doi.org/10.9734/jocamr/2025/v26i12731
10. Joseph Acquah, Senyefia Bosson-Amedenu, **Francis Eyiah-Bediako**, Albert Buabeng, Noureddine Ouerfelli (2024). Modelling incidence and mortality cancer parameters with respect to GLOBOCAN 2020Age standardized world estimates. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e36836
11. **Francis Eyiah-Bediako** (2023). Assessing and hedging the impact of longevity risk for countries with limited data. *African Review of Economics and Finance*. https://doi.org/10.10520/ejc-aref_v15_n1_a8
12. **Francis Eyiah-Bediako** (2023). DETECTION OF EXTREME OBSERVATIONS IN MULTIPLE MULTIVARIATE DATA USING PROJECTION TECHNIQUES: APPLICATION TO FOOD PRICE DATA. *Journal of Data Acquisition and Processing*. https://scholar.google.com/scholar?cluster=16001101495588308935&hl=en&oi=scholarr
13. **F Eyiah-Bediako**, D Kwamena Mensah (2023). Data Fusion for Physiological Vital Signs with Automatic Extreme Value Control. *J. Biomed. Eng*. https://www.researchgate.net/profile/David-Mensah/publication/374087988_DATA_FUSION_FOR_PHYSIOLOGICAL_VITAL_SIGNS_WITH_AUTOMATIC_EXTREME_VALUE_CONTROL/links/650d580ed5293c106cd41b91/DATA-FUSION-FOR-PHYSIOLOGICAL-VITAL-SIGNS-WITH-AUTOMATIC-EXTREME-VALUE-CONTROL.pdf
14. David Kwamena Mensah, **Francis Eyiah-Bediako**, Samuel Assabil (2022). Compendium of Tunable Data-driven Approaches for Smoothing Parameter Learning for Kernel Density-based Normal Systolic Blood Pressure Detection. *Universal Journal of Public Health*. https://doi.org/10.13189/ujph.2022.100209
15. **Eyiah-bediako Francis**, Bosson-amedenu Senyefia, Otoo Joseph (2020). Modeling Macroeconomic Variables Using Principal Component Analysis and Multiple Linear Regression: The Case of Ghana's Economy. *Journal of Business and Economic Development*. https://doi.org/10.11648/j.jbed.20200501.11
16. David Kwamena Mensah, Samuel Assabil, **Francis Eyiah-Bediako** (2020). On Statistical Approach to Automated Normal Systolic Blood Pressure Detection in Continuously Monitored Blood Pressure Data. https://doi.org/10.7176/jnsr/10-4-05
17. NKANSAH BISMARK K., DKMFEB Mensah, **F Eyiah-Bediako** (2008). Empirical Similarity-Based Approach for Selection of Unit Root Test. *Mathematical Theory and Modeling*. https://www.academia.edu/download/116632335/234680609.pdf

Theses 2

1. **Francis Eyiah-Bediako** (2019). Techniques for determining Classifications in multiple multivariate data: Application to prices of local food items on markets in Ghana. *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/78a45d69-2025-44c0-be9e-7a1d9cf2161a/content
2. **FRANCIS EYIAH-BEDIAKO** (2019). Thesis submitted to the Department of Statistics of the School of Physical Sciences, College of Agriculture and Natural Sciences, University of Cape. *Department of Statistics of the School of Physical Sciences, College of Agriculture and Natural Sciences, University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/4ec1300b-3b30-4108-9754-4359a1b64b63/content