

David Kwamena Mensah

Senior Lecturer · Department of Statistics
University of Cape Coast

ORCID [0000-0003-0109-8110](https://orcid.org/0000-0003-0109-8110) · Researchgate researchgate.net/profile/David-Mensah?ev=hdr_xprf · Google Scholar scholar.google.com/citations?user=EW5ZONwAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/95560d1f-759e-48e7-96aa-5f88f5b579d1

RESEARCH

Interests Bayesian Methods · Nonparametric statistics · Gaussian process regression · Data fusion for Big Data

Areas Surgery · Obstetrics and Gynecology · Infectious Diseases · Pediatrics, Perinatology and Child Health · Public Health, Environmental and Occupational Health · Cardiology and Cardiovascular Medicine

RESEARCH SUMMARY

29	137	6	5	2.01	11%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 29 publications listed below, 2008–2026. Field-weighted impact is the mean over the 18 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 18 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer
Statistics, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 27

1. Michael Arthur Ofori, Diana Maame Agyeiwaa Agyei, Abena Abokoma Asemanyi, Sesi Sedegah, Theophilus Asamoah, David Kwamena Mensah (2026). Assessing antenatal care utilization, socioeconomic inequalities and low birth weight outcomes: a population-based analysis using the 2022 Ghana demographic and health survey data. *BMC Pediatrics*. <https://doi.org/10.1186/s12887-026-07213-7>
2. Michael Arthur Ofori, David Kwamena Mensah, Theophilus Asamoah, Michael Fosu Ofori (2026). Determinants of Low Birth Weight in Ghana: Analysis of the 2022 Demographic and Health Survey. *Health Science Reports*. <https://doi.org/10.1002/hsr2.72639>
3. Michael Arthur Ofori, Daniel Biftu Bekalo, Aboma Temesgen Sebu, Sylvia Lordis Mensah, David Kwamena Mensah (2026). Predictive modeling of CD4 count levels in HIV/AIDS patients with TB co-infection: a machine learning framework for treatment optimization. *Discover Artificial Intelligence*. <https://doi.org/10.1007/s44163-026-01431-9>
4. David Kwamena Mensah, Emmanuel Kojo Amoah, Nathaniel Howard (2026). Statistical Methods for Consolidated Fire Outbreak Data Extraction in Ghana. *Engineering Reports*. <https://doi.org/10.1002/eng2.70895>
5. Michael Arthur Ofori, Daniel Biftu Bekalo, David Kwamena Mensah, Niharika Jha (2025). Female genital mutilation among children in Ethiopia: A time-to-event analysis of age at circumcision. *PLoS ONE*. <https://doi.org/10.1371/journal.pone.0317966>
6. David Kwamena Mensah (2025). Impact of Similarity Measure and Fusion Statistics on Vital Signs Data Fusion. *South Eastern European Journal of Public Health*.

7. Michael Arthur Ofori, Daniel Biftu Bekalo, David Kwamena Mensah, Niharika Jha (2025). Modelling the risk factors associated with female genital mutilation among the under-five children in Ethiopia, a retrospective study. *Journal of Health Population and Nutrition*. <https://doi.org/10.1186/s41043-025-00962-8>
8. Stephen Adomako, Irene Kafui Vorsah Amponsah, David Kwamena Mensah, James Damsere-Derry (2025). Road Accident Case Modeling in Ghana: A Perspective of Negative Binomial-Based Generalized Linear Models. *Journal of Probability and Statistics*. <https://doi.org/10.1155/jpas/3900755>
9. David Kwamena Mensah (2024). Data recovery methods in composite similarity-based data fusion: Application to Physiological vital signs. *TechRxiv*. <https://doi.org/10.36227/techrxiv.173144829.90970008>
10. Michael Arthur Ofori, David Kwamena Mensah, Ildephonse Nizeyimana, Niharika Jha, Zebunnesa Zeba, Shongkour Roy (2024). High Blood Pressure and Depression Among the Working Population of Ghana: A Generalized Linear Model of the Risk Factors. *Depression and Anxiety*. <https://doi.org/10.1155/2024/5261760>
11. Nathaniel Howard, David Kwamena Mensah (2024). LINEAR MODEL IN THE PRESENCE OF MULTICOLLINEAR PREDICTORS AND AUTOCORRELATED ERRORS: INSIGHTS FROM REGULARIZED AND ROBUST REGRESSION METHODS. *Journal of Data Acquisition and Processing*. <https://scholar.google.com/scholar?cluster=17345525504653793278&hl=en&oi=scholar>
12. David K Mensah, Papa Kobina G deGraft-Johnson, Ebenezer O Darkwa, Alexander Akowuah, Owusu-Sekyere Danso, George Aryee, Raymond Essuman, Robert Djaagbletey (2024). Perioperative Analgesic Effect of Serratus Anterior Plane Block for Breast Surgery: A Randomized Control Study at a Large Teaching Hospital in Ghana. *Cureus*. <https://doi.org/10.7759/cureus.63397>
13. NKANSAH BISMARCK K., David Kwmena Mensah (2023). AUTOMATED THRESHOLD METHOD FOR DIMENSIONALITY DETECTION IN MULTIVARIATE DATA. *Journal of Data Acquisition and Processing*. <https://scholar.google.com/scholar?cluster=2146073956527519423&hl=en&oi=scholar>
14. David Kwamena Mensah (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=scholar>
15. 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
16. Gladys A. Abindaw Nabieu, Michael Minlah, David Mensah (2023). Public debts, fiscal balance and sustainability: What can African governments learn from debt sustainability models? *Cogent Economics & Finance*. <https://doi.org/10.1080/23322039.2023.2235827>
17. 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>
18. David Kwamena Mensah, Michael Arthur Ofori, Nathaniel Howard (2022). Traumatic Systolic Blood Pressure Modeling: A Spectral Gaussian Process Regression Approach with Robust Sample Covariates. *Mathematics and Statistics*. <https://doi.org/10.13189/ms.2022.100312>
19. 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>
20. David Mensah, Anthony Q.Q. Aboagye, Joshua Y. Abor, Anthony Kyereboah-Coleman (2017). External debt among HIPC in Africa: accounting and panel VAR analysis of some determinants. *Journal of Economic Studies*. <https://doi.org/10.1108/jes-05-2015-0080>
21. Esther A Amemor, S O sackey, Nathaniel Yebuah, Raphael Deladem Folitse, Benjamin O Emikpe, E Afari, f

Wurapa, C Ohuabunwo, K Addo, David mensah, E Gaglo, Mark-hansen S Johnson, William Tasiame, D Amedzovor, D Nkunafa, Frank Bonsu (2016). THE PREVALENCE OF TUBERCULOSIS IN CATTLE AND THEIR HANDLERS IN NORTH TONGU, VOLTA REGION, GHANA. *African Journal of Infectious Diseases*. <https://doi.org/10.21010/ajid.v11i1.2>

22. Margaret Atuahene, David Mensah, Martin Adjui (2015). A cross-sectional study of determinants of birth weight of neonates in the Greater Accra region of Ghana. *Maternal Health Neonatology and Perinatology*. <https://doi.org/10.1186/s40748-015-0023-4>
23. A. Asante-Poku, I. D. Otchere, E. Danso, D. D. Mensah, F. Bonsu, S. Gagneux, D. Yeboah-Manu (2015). Evaluation of GenoType® MTBDRplus for the rapid detection of drug-resistant tuberculosis in Ghana. *The International Journal of Tuberculosis and Lung Disease*. <https://doi.org/10.5588/ijtld.14.0864>
24. David Kwamena Mensah (2015). Variational Bayes Methods in Gaussian Process Regression. *ScholarBank@NUS*.
25. Dzidzo Yirenya-Tawiah, Ted N Annang, Kwesi A Apea-Kubi, George Lomo, David Mensah, Lorenzo Akyeh, Kwabena M Bosompem (2014). Chlamydia Trachomatis and Neisseria Gonorrhoeae prevalence among women of reproductive age living in urogenital schistosomiasis endemic area in Ghana. *BMC Research Notes*. <https://doi.org/10.1186/1756-0500-7-349>
26. David Kwamena Mensah (2014). LQAS in Health Monitoring–Insights from a Bayesian Perspective. *International Journal of Statistics in Medical Research*. <https://www.academia.edu/download/81874497/4d19d3474c00366d3afc64a140c406e14627.pdf>
27. NKANSAH BISMARCK 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. David Kwamena Mensah (2023). Flexible Bayesian Methods For Inflation Modelling In Ghana. *University of Cape Coast*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/c41def37-8e47-4299-a723-33db07b5045f/content>
2. David Kwamena Mensah (2010). Bayesian Methods for Measuring Acute Malnourishment. *Plymouth University, UK*. https://www.researchgate.net/profile/David-Mensah/publication/242614372_Bayesian_Methods_for_Measuring_Acute_Malnourishment/links/59bc26f8458515e9cfc7c1c7/Bayesian-Methods-for-Measuring-Acute-Malnourishment.pdf