

Irene Kafui Vorsah Amponsah

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RESEARCH

Interests Computational Statistics and Data Analytics · Markov Chains · Gender & Health Statistics · etc
Areas Endocrinology, Diabetes and Metabolism · Management Science and Operations Research · Marketing · Statistics and Probability · Clinical Psychology · Economics and Econometrics

RESEARCH SUMMARY

26	25	3	0	0.73	22%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 1955–2026. Field-weighted impact is the mean over the 9 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 9 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2009–present
Statistics, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 15

- Francis Ayiah-Mensah, Esi Ahema Aboagye, Irene Kafui Vorsah Amponsah, Emmanuel Mensah Baah, Richard Eshun (2026). A Hierarchical Nonlinear Modelling Framework of Uncertainty Surveillance of Aggregated Global Cholesterol. *Cardiology and Angiology An International Journal*. <https://doi.org/10.9734/ca/2026/v15i2532>
- Irene Kafui Vorsah Amponsah (2026). Modeling Diabetic Neuropathy in Type 2 Diabetes Patients via the Absorbing Markov Chain in Techiman Municipality, Ghana. *Biomedical Statistics and Informatics*.
- Gladys Bayeldeng, Irene Amponsah (2026). Modeling Diabetic Neuropathy in Type 2 Diabetes Patients via the Absorbing Markov Chain in Techiman Municipality, Ghana. *Biomedical Statistics and Informatics*. <https://doi.org/10.11648/j.bsi.20261101.13>
- Justice Moses K. Aheto, Patience Otobia Wellington, Irene Kafui Vorsah Amponsah (2025). Experience of intimate-partner controlling behaviours among women in Ghana: a novel three step latent class analysis approach with survey-weighted fractional-logit regression. *BMC Women s Health*. <https://doi.org/10.1186/s12905-025-04144-w>
- 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>
- Irene Kafui Vorsah Amponsah (2023). Examining the risk of mother-to-child transmission of HIV in Ghana. *International Journal of Science and Social Science Research*.
- IK Vorsah Amponsah (2021). A Monte Carlo Comparison of Asymmetric Price Transmission Linear Models Under the Effect of Difference in Asymmetric Adjustment Parameters using rMDL, gMDL, nMDL, eMDL,

AIC & BIC. *IEEE Explore*.

8. IK Vorsah Amponsah (2021). Effect of COVID-19 on Education in Ghana: Narratives from Primary, Junior High and Senior High School children. *IEEE Explore*.
9. Irene Kafui Vorsah Amponsah (2020). Data Analysis with SPSS & MINITAB (A Student's Companion). ISBN - 978-9964-3-0504-4.
10. Irene Kafui Vorsah Amponsah (2019). Study on the Knowledge of Women on the effect of Alcohol Consumption on the Fetus in Elmina-Ghana. *International Journal of Scientific & Engineering Research*. <https://www.academia.edu/download/77184848/Study-on-Knowledge-of-Women-on-the-Effect-of-Alcohol-Consumption-on-the-Fetus-in-Elmina-Ghana.pdf>
11. Irene K Amponash Martin Anokye, Emmanuel Kwame Essel, Irene Kafui Amponsah (2018). THE DIFFERENTIAL AND DELAY DIFFERENTIAL APPROACH IN THE ANALYSIS OF STABLE STATE EQUILIBRIUM PRICES USING CHARACTERISTIC EQUATION TECHNIQUES. *International Journal of Management and Applied Science*. <https://ir.ucc.edu.gh/items/04dab804-da65-4c21-ad09-d576af9eba39>
12. Emmanuel Kwasi Abu, MB Adinortey, I. K. Amponsah (2014). Is there any Association between Serum Lipids and Diabetic Retinopathy in Type 2 Diabetic Patients in Ghana? *International Journal of TROPICAL DISEASE & Health*. <https://doi.org/10.9734/ijtdh/2014/4183>
13. Irene Kafui Vorsah Amponsah (2013). Fruity Fruity: My Ghanaian Delight. *George Padmore Library / ISBN:*.
14. Irene Kafui Amponsah (2012). Factors Influencing the Patronage of Coconut Fruit Case Study: Cape Coast Metropolis--Ghana. *Journal of environmental Science and Engineering A*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/bacf389e-3c2c-488e-ad20-5311641d6b6d/content>
15. Irene Kafui Vorsah Amponsah (1955). Department of Mathematics & Statistics. *University of Otago, and St Hilda's College, Dunedin*. <https://bradthiessen.com/html5/docs/2016pr.pdf>

Conference papers 7

1. Irene Kafui Vorsah Amponsah, Henry De-Graft Acquah (2019). A Monte Carlo Comparison of Asymmetric Price Transmission Linear Models Under the Effect of Difference in Asymmetric Adjustment Parameters using rMDL, gMDL, nMDL, eMDL, AIC & BIC. <https://doi.org/10.1109/icmrssiit46373.2020.9405827>
2. Irene Kafui Vorsah Amponsah, Henry De-Graft Acquah, Nathaniel Howard (2019). A Monte Carlo Comparison of rMDL, gMDL, eMDL, nMDL, AIC and BIC Under the Effect of Stochastic Variance for Asymmetric Price Transmission Linear Models. <https://doi.org/10.1109/icmrssiit46373.2020.9405933>
3. Irene Kafui Vorsah Amponsah (2019). Achieving Peace through Democratic Citizenship Education. *GWI 33rd Triennial Centenary Conference on Peace Through Education*.
4. Irene Kafui Vorsah Amponsah, Henry De-Graft Acquah, Nathaniel Kwamena Howard (2019). Comparative Evaluation of Asymmetric Price Transmission Linear Models Using rMDL, eMDL, nMDL, gMDL, AIC and BIC Across Varying Sample Sizes. <https://doi.org/10.1109/icma.2019.00030>
5. Irene Kafui Vorsah Amponsah, Sylvia Ankamah, Helena Amoakohene Anarfi, Carine Lesley Malor (2019). Effect of COVID-19 on Education in Ghana: Narratives from Primary, Junior High and Senior High School children. <https://doi.org/10.1109/icmrssiit46373.2020.9405905>
6. IK Vorsah Amponsah, D Addo-Mensah, M Anokye (2019). THE EFFECT OF PRACTICAL WORK AND MOTIVATION ON STUDENTS'DESIRE TO STUDY STEM SUBJECTS. *EDULEARN19 Proceedings*. <https://library.iated.org/view/VORSAHAMPONSAH2019EFF>
7. Irene Kafui Vorsah Amponsah (2019). Women Educators Empowering Change at Home for a Peaceful Society. *GWI 33rd Triennial Centenary Conference on Peace Through Education*.

Reports 3

1. Irene Kafui Vorsah Amponsah (2024). Data Analysis with R - Statistics for Everyone. ISBN:.
2. Irene Kafui Vorsah Amponsah (2024). Fruity Fruity - Scientific Names and Nutrients. ISBN:.
3. Irene Kafui Vorsah Amponsah (2020). WIS GHANA COVID-19 EDUCATION: MOTHER AND CHILD PROTECTION. <https://wisghana.wordpress.com>.

Theses 1

1. Irene Kafui Vorsah Amponsah (2021). A Monte Carlo comparison of minimum description length model selection criteria for asymmetric price transmission models. *University of Cape Coast*.