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RESEARCH

Areas: Safety, Risk, Reliability and Quality · Public Health, Environmental and Occupational Health · Transportation · Modeling and Simulation · Economics and Econometrics · Global and Planetary Change

RESEARCH SUMMARY

33	691	15	16	2.47	27%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 33 publications listed below, 2013–2026. Field-weighted impact is the mean over the 33 works scored for it; 1.00 is the world average for works of the same field, type and year. 9 of the 33 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 32

1. Killian Asampana Asosega, **Eric N. Aidoo**, Atinuke Olusola Adebanji, Ellis Owusu-Dabo (2026). Bayesian Spatial Conditional Logistic Regression Modelling of Overweight/Obesity Prevalence and Determinants Among Women in Ghana, Accounting for Contraceptive Use. *Global Health*. https://doi.org/10.1155/ghe3/3074676
2. Killian Asampana Asosega, Atinuke Olusola Adebanji, **Eric Nimako Aidoo**, Ellis Owusu-Dabo, Kassim Tawiah (2025). Malaria prevalence dynamics and risk covariates among children under 5 in Ghana: insights from a Bayesian multilevel approach. *BMJ Open*. https://doi.org/10.1136/bmjopen-2024-088910
3. Killian Asampana Asosega, Atinuke Olusola Adebanji, **Eric Nimako Aidoo**, Ellis Owusu-Dabo (2024). Application of Hierarchical/Multilevel Models and Quality of Reporting (2010–2020): A Systematic Review. *The Scientific World JOURNAL*. https://doi.org/10.1155/2024/4658333
4. Mohammed A. Yakubu, **Eric N. Aidoo**, Richard T. Ampofo, Williams Ackaah (2024). Bivariate ordered probit modelling of motorcycle riders and pillion passengers' injury severities relationship and associated risk factors. *International Journal of Injury Control and Safety Promotion*. https://doi.org/10.1080/17457300.2024.2349554
5. Ernest Konadu Appiah, **Eric Nimako Aidoo**, Richard Kodzo Avuglah, Simon Kojo Appiah (2024). Geographically weighted logistic regression model for identifying risk factors for malaria infection among under-5 children in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02398
6. Yaw K. Awuah-Mensah, **Eric N. Aidoo** (2024). Modelling the spatial varying relationships between socioeconomic inequalities and COVID-19 mortality in the African subregion. *Earth Science Informatics*. https://doi.org/10.1007/s12145-024-01321-7
7. Williams Ackaah, Joseph Larbi, **Eric N. Aidoo** (2024). Pedestrian red-light violations and other safety-related behaviours at signalised crosswalks. *Urban Planning and Transport Research*. https://doi.org/10.1080/21650020.2024.2353073
8. Samuel Ampadu, Eric T. Mensah, **Eric N. Aidoo**, Alexander Boateng, Daniel Maposa (2023). A comparative study of error distributions in the GARCH model through a Monte Carlo simulation approach. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01988

9. Richard T. Ampofo, **Eric N. Aidoo**, Bernard O. Ntiamoah, Ophelia Frimpong, Daniel Sasu (2023). An empirical investigation of COVID-19 effects on herding behaviour in USA and UK stock markets using a quantile regression approach. *Journal of Economics and Finance*. https://doi.org/10.1007/s12197-022-09613-8

10. Killian Asampana Asosega, **Eric Nimako Aidoo**, Atinuke Olusola Adebanji, Ellis Owusu-Dabo (2023). Examining the risk factors for overweight and obesity among women in Ghana: A multilevel perspective. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e16207

11. Nana Owusu M. Essel, **Eric Nimako Aidoo**, Simon Kojo Appiah (2023). Geospatial modelling of COVID-19 vaccination coverage inequalities: evidence from 192 countries. *Spatial Information Research*. https://doi.org/10.1007/s41324-023-00531-3

12. Desmond Ag-Yi, **Eric N. Aidoo** (2022). A comparison of normality tests towards convoluted probability distributions. *Research in Mathematics*. https://doi.org/10.1080/27684830.2022.2098568

13. Simon Kojo Appiah, Kingsley Wirekoh, **Eric Nimako Aidoo**, Samuel Dua Oduro, Yarhands Dissou Arthur (2022). A model-based clustering of expectation–maximization and K -means algorithms in crime hotspot analysis. *Research in Mathematics*. https://doi.org/10.1080/27684830.2022.2073662

14. Yahya A. Nkrumah, **Eric N. Aidoo**, Williams Ackaah (2022). Mixed-effect logit modeling of red-light violations among motorcyclists. *Communications in Statistics Case Studies Data Analysis and Applications*. https://doi.org/10.1080/23737484.2022.2074913

15. **Eric N. Aidoo**, Ute Mueller, Glenn A. Hyndes, Karina L. Ryan (2022). Spatial characterisation of Demersal Scalefish diversity based on recreational fishing data. *Fisheries Research*. https://doi.org/10.1016/j.fishres.2022.106403

16. Richard Twum Ampofo, **Eric Nimako Aidoo** (2022). Structural equation modelling of COVID-19 knowledge and attitude as determinants of preventive practices among university students in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01182

17. Reuben Tamakloe, Subasish Das, **Eric Nimako Aidoo**, Dongjoo Park (2021). Factors affecting motorcycle crash casualty severity at signalized and non-signalized intersections in Ghana: Insights from a data mining and binary logit regression approach. *Accident Analysis & Prevention*. https://doi.org/10.1016/j.aap.2021.106517

18. **Eric N. Aidoo**, Simon K. Appiah, Gaston E. Awashie, Alexander Boateng, Godfred Darko (2021). Geographically weighted principal component analysis for characterising the spatial heterogeneity and connectivity of soil heavy metals in Kumasi, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e08039

19. **Eric N. Aidoo**, Richard T. Ampofo, Gaston E. Awashie, Simon K. Appiah, Atinuke O. Adebanji (2021). Modelling COVID-19 incidence in the African sub-region using smooth transition autoregressive model. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-021-01136-1

20. **Eric N. Aidoo**, Atinuke O. Adebanji, Gaston E. Awashie, Simon K. Appiah (2021). The effects of weather on the spread of COVID-19: evidence from Ghana. *Bulletin of the National Research Centre/Bulletin of the National Research Center*. https://doi.org/10.1186/s42269-021-00484-3

21. **Eric Nimako Aidoo**, Richard Amoh-Gyimah, Williams Ackaah (2021). The relationship between driver and passenger's seatbelt use: a bivariate probit analysis. *International Journal of Injury Control and Safety Promotion*. https://doi.org/10.1080/17457300.2021.1881559

22. Daniel Obeng, Daniel Obeng-Atuah, Williams Ackaah, Adubofour Yaw Tuffour, **Nimako Eric Aidoo** (2021). Uptake in on-demand ride-hailing for intracity long distance trip making during COVID-19. *Urban Planning and Transport Research*. https://doi.org/10.1080/21650020.2021.1872415

23. **Eric Nimako Aidoo**, Simon K. Appiah, Alexander Boateng (2020). Brief Research Report: A Monte Carlo Simulation Study of Small Sample Bias in Ordered Logit Model under Multicollinearity. *The Journal of Experimental Education*. https://doi.org/10.1080/00220973.2019.1708233

24. Williams Ackaah, **Eric N. Aidoo** (2020). Modelling risk factors for red light violation in the Kumasi Metropolis, Ghana. *International Journal of Injury Control and Safety Promotion*. https://doi.org/

10.1080/17457300.2020.1792936

25. **Eric N. Aidoo**, Williams Ackaah, Simon K. Appiah, Ernest K. Appiah, Joseph Addae, Haruna Alhassan (2019). A bivariate probit analysis of child passenger's sitting behaviour and restraint use in motor vehicle. *Accident Analysis & Prevention*. https://doi.org/10.1016/j.aap.2019.05.022
26. **Eric Nimako Aidoo**, Williams Ackaah (2019). A generalized ordered logit analysis of risk factors associated with driver injury severity. *Journal of Public Health*. https://doi.org/10.1007/s10389-019-01135-8
27. **Eric Nimako Aidoo**, Richard Amoh-Gyimah (2019). Modelling the risk factors for injury severity in motorcycle users in Ghana. *Journal of Public Health*. https://doi.org/10.1007/s10389-019-01047-7
28. **Eric Nimako Aidoo**, Shaibu Bawa, Carole Amoako-Yirenkyi (2018). Prevalence rate of helmet use among motorcycle riders in Kumasi, Ghana. *Traffic Injury Prevention*. https://doi.org/10.1080/15389588.2018.1509072
29. Richard Amoh-Gyimah, **Eric N. Aidoo**, Millicent A. Akaateba, Simon K. Appiah (2016). The effect of natural and built environmental characteristics on pedestrian-vehicle crash severity in Ghana. *International Journal of Injury Control and Safety Promotion*. https://doi.org/10.1080/17457300.2016.1232274
30. Richard Amoh-Gyimah, **Eric Nimako Aidoo** (2013). Mode of transport to work by government employees in the Kumasi metropolis, Ghana. *Journal of Transport Geography*. https://doi.org/10.1016/j.jtrangeo.2013.05.008
31. Bashiru I.I. Saeed, MunyakaziLouis, **Eric N. Aidoo**, Nicholas.N.N. Nsowah-Nuamah, Alfred E. Yawson, XicangZhao (2013). Socio-economic Inequalities and Healthcare Utilization in Ghana. *RePEc: Research Papers in Economics*. https://doi.org/10.18533/ijbsr.v3i1.88
32. **Eric Nimako Aidoo**, Richard Amoh-Gyimah, Williams Ackaah (2013). The effect of road and environmental characteristics on pedestrian hit-and-run accidents in Ghana. *Accident Analysis & Prevention*. https://doi.org/10.1016/j.aap.2012.12.021

Conference papers 1

1. Alexander Boateng, **Eric Nimako Aidoo**, Daniel Maposa, Christopher Odoom, Samuel Adjei Owusu (2024). Optimizing Binary Classification Performance in Neural Networks Through Simulation: A Comparative Study of Activation Functions. *Lecture notes in networks and systems*. https://doi.org/10.1007/978-3-031-73324-6_54