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RESEARCH

Areas: Economics and Econometrics · Finance · Artificial Intelligence · Global and Planetary Change · Management Science and Operations Research · Management, Monitoring, Policy and Law

RESEARCH SUMMARY

13	106	6	4	0.85	8%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 13 publications listed below, 2020–2024. Field-weighted impact is the mean over the 13 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 13 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 10

1. 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
2. **Alexander Boateng**, Daniel Maposa, Reshoketswe Mokobane, Timotheus Darikwa, Charles Gyamfi (2023). Analysis of COVID-19 cases and comorbidities using machine learning algorithms: A case study of the Limpopo Province, South Africa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01840
3. Benjamin Darko Asamoah, Matt Dodd, Lily Lisa Yevugah, Lawrence Sheringham Borquaye, **Alexander Boateng**, Marian Asantewah Nkansah, Godfred Darko (2023). Distribution and in-vitro bioaccessibility of potentially toxic metals in surface soils from a mining and a non-mining community in Ghana: implications for human health. *Environmental Geochemistry and Health*. https://doi.org/10.1007/s10653-023-01776-5
4. Bismark Von Tamakloe, **Alexander Boateng**, Eric Teye Mensah, Daniel Maposa (2023). Impact of Risk Management on the Performance of Commercial Banks in Ghana: A Panel Regression Approach. *Journal of risk and financial management*. https://doi.org/10.3390/jrfm16070322
5. **Alexander Kwaku Boateng**, Richard Puurbalanta, Gideon Mensah Engmann, Ernest Zamanah, Angela Osei-Mainoo (2023). Mixed Autoregressive Model for Spatial Data: A Bayesian Application to Poverty Mapping. *International Journal of Statistical Distributions and Applications*. https://doi.org/10.11648/j.ijsd.20230903.12
6. Eric Teye Mensah, **Alexander Boateng**, Nana Kena Frempong, Daniel Maposa (2023). Simulating stock prices using geometric Brownian motion model under normal and convoluted distributional assumptions. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01556
7. 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
8. 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
9. **Alexander Boateng**, Gloria Claudio-Quiroga, Luis A. Gil-Alana (2020). Exchange rate dynamics in South

Africa. *Applied Economics*. https://doi.org/10.1080/00036846.2019.1688245

10. Chris Nembidzane, Maseka Lesaoana, Kotsedi Monyeki, **Alexander Boateng**, Phuti Makgae (2020). Using the SITAR Method to Estimate Age at Peak Height Velocity of Children in Rural South Africa: Ellisras Longitudinal Study. *Children*. https://doi.org/10.3390/children7030017

Conference papers 3

1. Christopher Odoom, Denis Folitse, **Alexander Boateng**, Luis Alberiko Gil Alaña, Daniel Maposa (2024). Beyond GDP: Unraveling the Nexus of Economic Growth, Employment Stability, and Forest Conservation in Sub-Saharan Africa. *Lecture notes in networks and systems*. https://doi.org/10.1007/978-3-031-73324-6_56

2. **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

3. Maxwell Barima Asare, **Alexander Boateng**, Eric Teye Mensah, Daniel Maposa (2024). Parameter Estimation of Ornstein-Uhlenbeck Process Using Resampling Estimation Techniques: A Simulation Study. *Lecture notes in networks and systems*. https://doi.org/10.1007/978-3-031-73324-6_55