Dr. Richard Asumadu Oppong

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RESEARCH

Interests	statistical modeling · geometry · data analysis
Areas	Education · Applied Mathematics · Developmental and Educational Psychology · Experimental and Cognitive Psychology · Management, Monitoring, Policy and Law · Organizational Behavior and Human Resource Management

RESEARCH SUMMARY

23	178	7	7	0.84	20%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 23 publications listed below, 2012–2025. Field-weighted impact is the mean over the 5 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 5 papers scored for it are among the world's most cited tenth for their field, type and year.

EDUCATION AND QUALIFICATIONS

Ph.D.|Dr. 2015–present
Mathematics Education/Applied Mathematics, University of Education, Winneba, Winneba, Ghana

PUBLICATIONS

Journal articles 21

1. **Richard Oppong** (2025). Age-associated increase in growth differentiation factor 15 levels correlates with central arterial stiffness and predicts all-cause mortality in a Sardinian population cohort. *Journal of the American Heart Association*. https://doi.org/10.1161/jaha.124.036253
2. Emmanuel Antwi Adjei, **Richard Asumadu Oppong** (2025). Pre-service Mathematics Teachers' Demographics and Their Algebraic Thinking Levels in Colleges of Education, Ghana. *Asian Research Journal of Mathematics*. https://hal.science/hal-05033854/document
3. **Richard Asumadu Oppong** (2025). Senior High Schools Mathematics Teachers' Preparedness to Implement an Inclusive Mathematics Education Curriculum in Ghana. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v21i1.8
4. **Richard Asumadu Oppong**, Emmanuel Antwi Adjei, Emmanuel Kojo Amoah, Enock Okuleteh, Baba Larri (2024). Analyses of Pre-Service Teachers' Errors in Solving Algebraic Tasks in Ghana. *International Journal of Mathematics and Mathematics Education*. https://doi.org/10.56855/ijmme.v2i3.1134
5. Christopher Owu-Annan, Peter Akayuure, **Richard Asumadu Oppong** (2024). Attitudes and Metacognitive Awareness as Predictors of Undergraduates' Algebra Scores. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v20i1.7
6. EA Adjei, **Richard Asumadu Oppong** (2024). Exploring Pre-Service Teachers' Algebraic Thinking Levels: A Mixed Method Research. *International Journal of Current Educational Studies*. https://www.ijces.net/index.php/ijces/article/view/93
7. **Richard Oppong** (2024). Mitochondrial DNA copy number from human blood is associated with specific cognitive function. *Alzheimer's & Dementia*. https://doi.org/10.1002/alz.087418

8. **Richard Oppong** (2023). Mitochondrial DNA copy number is associated with physical function. *Innovation in Aging*. https://search.proquest.com/openview/6bd382485ba0f66ef2587c12817e32bf/1?pq-origsite=gscholar&cbl=7089193
9. **Richard Oppong** (2022). Facets of personality and risk of cognitive impairment: Longitudinal findings in a rural community from Sardinia. *Journal of Alzheimer's disease*. https://doi.org/10.3233/jad-220400
10. P Akayuure, **RA Oppong**, DA Addo, DO Yeboah (2022). Geometric thinking behaviours of undergraduates on-entry and at-exit of online geometry course. *Science Journal of Education*. https://scholar.google.com/scholar?cluster=7365109701488031638&hl=en&oi=scholarr
11. **Richard F Oppong** (2022). Personality traits are consistently associated with blood mitochondrial DNA copy number estimated from genome sequences in two genetic cohort studies. *Elife*. https://elifesciences.org/articles/77806
12. **Richard Oppong** (2021). Mitochondrial DNA copy number and heteroplasmy load correlate with skeletal muscle oxidative capacity by P31 MR spectroscopy. *Aging Cell*. https://doi.org/10.1111/acel.13487
13. **Richard Oppong** (2021). Predicting physiological aging rates from a range of quantitative traits using machine learning. *Aging (albany NY)*. https://pmc.ncbi.nlm.nih.gov/articles/PMC8580337/
14. **Richard Asumadu Oppong**, Christine Oppong, George Kankam (2017). The Impact of Organisational Culture on Employees' Job Satisfaction in Colleges of Education in Ghana.
15. E Asemani, **Richard Asumadu Oppong** (2017). The geometric thinking level of senior high school students in Ghana. *International Journal of Mathematics and Statistics Studies*. https://www.academia.edu/download/53493145/The-Geometric-Thinking-Levels-of-Senior-High-School-Students-in-Ghana.pdf
16. **Richard Asumadu Oppong** (2015). Comparative Assessment of Poisson and Negative Binomial Regressions as Best Models for Road Count Data. *International Journal of Scientific Research and Engineering Studies (IJSRES)*. https://scholar.google.com/scholar?cluster=14670885707121933212&hl=en&oi=scholarr
17. **Richard Asumadu Oppong** (2014). Analysis of Vehicular Type as a Risk Factor of Road Accidents' Fatality in Ghana. *International Journal of Modern Sciences and Engineering Technology (IJMSET)*. https://www.academia.edu/download/60655514/Analysis__Paper-13_Vol.1___Issue.5_pp_106-11420190920-76741-1400w9z.pdf
18. **Richard Asumadu Oppong** (2014). Analysis of age as a risk factor of road accident fatality in Ghana with negative binomial regression. *International Journal of Scientific Research in Education*.
19. **Richard Asumadu Oppong** (2014). Architectural narrative of the Dagara house in northern Ghana. *Developing Country Studies*. https://www.academia.edu/download/88276864/234682091.pdf
20. **Richard Asumadu Oppong** (2014). Determination of Predictor Variables Contributing to the Survival of Prostrate Cancer in Komfo Anokye Teaching Hospital, Ghana. *International Journal of Applied Science and Technology*.
21. **Richard Asumadu Oppong** (2012). Statistical analysis of road accidents fatality in Ghana using Poisson regression. *Accra, Ghana*. https://www.academia.edu/download/40922805/FINAL_THESIS_2012__on_road_traffic_accident.pdf

Theses 2

1. **RICHARD ASUMADU Oppong** (2022). Investigating demand for senior high school mathematics teachers and their preparedness to implement an inclusive education mathematics curriculum. *University of Education, Winneba*. https://ir.uew.edu.gh/handle/123456789/2883
2. **Richard Fordjour Oppong** (2019). Investigating the genetic control of complex traits. *University of Edinburgh*. https://era.ed.ac.uk/bitstreams/f1df37fb-ca8c-4286-8c92-fe3ce420b2dc/download