

Olaniyi Mathew OLAYIWOLA

Professor of Statistics | Survey Methodology & Public Health Data Expert
Country Representative, Royal Statistical Society UK and International Association of Survey Statisticians | International Ambassador, Biochemical Society, UK
Email: olayiwolaom@funaab.edu.ng | Phone: +2348034305353|
ORCID: <https://orcid.org/0000-0003-2373-2012> |
Google Scholars <https://scholar.google.com/citations?user=UCiRkS0AAAAJ&hl=en>
Location: Abeokuta, Nigeria

EDUCATION

- | M.Sc. Biostatistics, 2024 | Ph.D. Statistics, 2011 | B.Sc. Hons Statistics, 2010 | PGD Education, 2006 | M.Sc. Statistics, 2005 | PGD Statistics, 2002 | HND Mathematics and Statistics 1998 | ND Statistics, 1995 |
- Universities Attended: University of Ilorin, University of Ibadan, The Polytechnic Ibadan, Kwara State Polytechnic, Ilorin, Nigeria

PROFESSIONAL QUALIFICATIONS

- Qualified Teacher Status, Department for Education, UK, 2025
- Chartered Statistician, Royal Statistical Society, UK, 2012
- Chartered Scientist, Science Council, UK, 2012

ACADEMIC & PROFESSIONAL APPOINTMENTS

- Deputy Dean, Postgraduate School, Federal University of Agriculture, Abeokuta [FUNAAB], Nigeria | 2025–Date
- Professor of Statistics, Department of Statistics, FUNAAB | 2021–Date
- Head of Department, Department of Statistics, FUNAAB | 2019–2023
- Lecturer I to Senior Lecturer, FUNAAB | 2011–2021
- Lecturer II, Redeemer's University, Mowe | 2011
- Assistant Lecturer, Ajayi Crowther University, Oyo | 2007–2011
- NYSC, Benue Cement Company, Gboko | 1999–2000

INTERNATIONAL ENGAGEMENT & UK EXPERIENCE

- Volunteer: Kent, Medway & Sussex Secure Data Environment for NHS Research Programme, UK | 2024–2025
- Teaching Fellow: University of Kent, Canterbury, UK | 2023–2024
- Contributor, National Conversation on Health Data, Insight & Strategy, NHS England | 2024
- Country Representative & Contact Person, Royal Statistical Society, UK | 2018–Date
- Country Representative, International Association of Survey Statisticians, Nigeria | 2018–Date
- International Ambassador, Biochemical Society, UK
- Member, President Nominating Committee, Royal Statistical Society, UK | 2018–2022[Nigeria]
- Member, Past Earth Network, University of Leeds, UK | 2015– 2017

RESEARCH IMPACT & CONSULTANCY

- Lead Developer: Nigeria's first predictive mathematical models for 10-year reinfection probabilities of Neglected Tropical Diseases [Lymphatic Filariasis & Onchocerciasis].
- Collaboration: Federal Ministry of Health + Clinton Health Access Initiative.
- Survey Methodology Expert: LearNigeria National Survey [2016–2017]. Generated empirical data on literacy/numeracy for children 5–15 years.
- Consultant: National Bureau of Statistics, Nigeria, Nigeria Institute of Science Laboratory Technology and Ogun State Bureau of Statistics
- Author: 74+ peer-reviewed journal articles. Research in adaptive cluster sampling, longitudinal surveys, ML for public health and Time Series
- Supervisor: 5 Ph.D, 32 M.Sc completed, 100+ B.Sc projects.

LEADERSHIP IN CAPACITY BUILDING

- Founder: Data Insights Extraction learning platform, Peer-Peer Assisted Learning, Virtual Statistics for non-majors at FUNAAB.
- Lead Trainer: RSS-IASS Conferences Nigeria, NBS staff, Ogun State Bureau of Statistics, FUNAAB Health Centre, FUNAAB Academic Planning Officers.
- Trainings delivered: Survey Design, R, STATA, SPSS, Python, Healthcare Data Protection.

SELECTED AWARDS & HONOURS

- 2020 Mardia Prize for COVID-19 Response in Nigeria
- Past Earth Network Outreach Prize, EPSRC Funded, 2017
- RSS, Mathematics Foresees, SECURE and TetFund Grants
- Inaugural Lecturer, 108th FUNAAB Inaugural Lecture: “FROM SAMPLE TO SOLUTION: Harnessing Statistics for Evidence-Based Public Decision-Making in the Data Age” | Feb 11, 2026.

PROFESSIONAL MEMBERSHIPS & SERVICE

- Fellow, Royal Statistical Society, UK [FRSS]
- Member, Chartered Institute of Statisticians of Nigeria
- Member, International Association for Official Statistics
- Member, International Association of Survey Statisticians
- External Examiner: University of Ibadan, Federal University of Technology Akure, Nigeria, Olabisi Onabanjo University Ago-Iwoye, Ogun State, Nigeria, Federal University of Technology Minna, Nigeria, Obafemi Awolowo University Ile-Ife, Nigeria, Bells University of Technology, Ota, Oyo State College of Agriculture and Technology, Igboora, Oyo State, Nigeria.
- Senate & University Board Member, FUNAAB

SELECTED PUBLICATIONS

- 1) Ekong, A. H., and Olayiwola O. M. (2020): A geographically weighted regression approach to examine the dynamics of fertility differentials across Africa. *Statistical Journal of the International Association for Official Statistics*. Published by

International Association for Official Statistics, United States. 36 (1), 87–102. Published by Available online at: (<https://content.iospress.com/articles/statistical-journal-of-the-iaos/sji200717>) Indexed in Scopus and Scimago

- 2) **Olayiwola O. M.**, Ajayi A. O., Onifade O. C., Wale-Orojo O. A. and Ajibade B. (2020): Adaptive cluster sampling with model based approach for estimating total number of hidden COVID-19 carriers in Nigeria. *Statistical Journal of the International Association for Official Statistics.*, 36 (1), 103 – 109. Published by International Association for Official Statistics, United States. Available online at: (<https://content.iospress.com/download/statistical-journal-of-the-iaos/sji200718?id=statistical-journal-of-the-iaos%2Fsji200718>). Indexed in Scopus and Scimago
- 3) Olawoyin I. O., Ahmed A, Olayiwola O. M., Abdulazeez S.A (2021): Chain Ratio-Type Estimator of Finite Population Mean Under Two-Phase Sampling in Systematic Sampling Scheme. *Annals of Optimization Theory and Practice.* 4 (1), 15 – 28. Published by Firouzabad Institute of Higher Education, Iran. Available online at http://aotp.fabad-ihe.ac.ir/article_129425.html
- 4) O. A. Wale-Orojo, O. M. Olayiwola, F. S. Apantaku and A. o. Ajayi (2022): Modelling Rare Events in an Adaptive Cluster Sampling Design with Heterogeneity among Networks and within the Network Units. Sri Lanka Journal of Applied Statistics. Vo;ume 23-2, pp 1 - 28 <https://sljastats.sljol.info/articles/10.4038/sljastats.v23i1.8041>
- 5) Aniefiok Henry Ekong, Matthew Olaniyi Olayiwola, Abayomi Ganiyu Dawodu and Ademola Idowu Osinuga (2024): Latent Gaussian Approach to Joint Modelling of Longitudinal and Mixture Cure Outcomes. Computational Journal of Mathematical and Statistical Sciences 4(1), 72-95 DOI:10.21608/cjmss.2024.303748.1061 <https://cjmss.journals.ekb.eg/>
- 6) Ekong, A. H., Olayiwola, O. M., Dawodu, A. G., & Osinuga, A. I. (2025). A latent gaussian joint modelling of multivariate longitudinal and mixture cure outcomes with application to aortic valve replacement surgery data. *Brazilian Journal of Biometrics*, 43(4), . <https://doi.org/10.28951/bjb.v43i4.776>
- 7) *O. A. Wale-orojo, o. O. Ojebode, d. O. Atanda and O. M. Olayiwola (2025). Improving rare event estimation in public health surveys: A bayesian hierarchical approach within adaptive cluster sampling. *Sri Lankan Journal of Applied Statistics.* <https://sljastats.sljol.info/articles/10.4038/sljas.v26i3.8204>
- 8) Z. O. Aremu, O. M. Olayiwola, G. A. Dawodu, I. A. Oshinuga (2025). *Efficient model selection for high-dimensional and hierarchical data using bayesian hierarchical generalized linear models with lasso regularization.* Journal of the Royal Statistical Society Nigeria Group. <https://publications.funaab.edu.ng/index.php/JRSS-NIG/article/view/2004>

SELECTED CONFERENCES ATTENDED

- i. **Olayiwola O.M**, Adeyemi Adeniran., Olawoyin Ishaq (2025): Mitigating Measurement Error and Non-Response Challenges in Survey Research. Royal Statistical Society 2025 Annual International Conference, Edinburgh, Edinburgh International Conference Centre, United Kingdom. September 1 – 4, 2025
- ii. **Olayiwola O.M**, Igbalajobi M. M., Olayiwola O. D, Olayiwola T. A (2023): Joint Modelling of Longitudinal and Time-to-event data with heterogenous random effect and skew normal error term. Royal Statistical Society 2023 Annual International Conference, Harrogate, Harrogate Convention centre, United Kingdom. 4th of September to 7th of September 2023
- iii. **Olayiwola O.M (2022)**: Bias Reduction Model; A solution to National Security Challenges, Annual International Conference of the Royal Statistical Society, 12th of September to 16th of September 2022, held at PJ Live Aberdeen, Scotland, United Kingdom
- iv. **Olayiwola O.M. et al (2021)**: Modelling Rare Events in an Adaptive Cluster Sampling Design with Heterogeneity among Networks and within Network Units. The Royal Statistical Society 2021 Annual International Conference, Manchester, United Kingdom. 5th of September to 6th of September 2021

REFEREES

- Available on request