# Oyelola A. Adegboye

**BSc Stat; MSc Stat; PG.Dip. Edu; MSc Biostat; PhD Statistics; FIMC, CMC CStat, CSci**

**Public Health & Tropical Medicine, College of Public Health, Medical & Vet Sciences. World Health Organization Collaborating Centre (WHOCC) for Wector-borne and Neglected Tropical Diseases, James Cook University**
**Email: oyelola.adegboye@jcu.edu.au or oyeadegboye@yahoo.com**
**Mobile: +61(0)432298248**


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## SUMMARY

Google Scholar  Research Portfolio  ResearcherID: A-2987-2015

- Research interests: Empirical analysis of survey data & linked data, Correlated data & multi-level modelling, Disease mapping & Spatial epidemiology, Environmental statistics, Spatio-temporal statistics,
- Research Areas and Areas of Expertise: Biostatistics, Exposure Science, Infectious diseases, One health, Global health, Maternal & childs health.

## EDUCATION

2014 Ph.D., (Statistics) University of the Western Cape, South Africa.
2010 M.Sc., (Biostatistics), Hasselt University, Belgium.
2008 PG. Dip (Education), University of Ado-Ekiti, Nigeria.
2006 M.Sc., (Statistics), University of Ilorin, Nigeria.
2000 B.Sc., (Statistics) University of Ilorin, Nigeria.

## ACADEMIC APPOINTMENTS

2021 - Lecturer of Biostatistics, Public Health and Tropical Medicine, James Cook University
2018 - 2020 Clinical Research Biostatistician: Infectious disease, Australian Institute of Tropical Health & Medicine, James Cook University 2019 - 2021 Researcher- Ton Duc Thang University, Ho Chi Minh
2013 - 2018 Lecturer of Statistics, Department of Math., Stat. and Phys., Qatar University.
2010 - 2013 Instructor of Statistics, Dept. of Math., American University of Afghanistan.
2008 - 2009 Adj. Instructor, Div. of Math., American University of Nigeria.
2005 - 2007 Instructor of Statistics, Div. of Math., American University of Nigeria.
2001 - 2005 Lecturer of mathematics, Dept. of Math., Kwara State College of Education

## PROFESSIONAL QUALIFICATIONS/CERTIFICATION

2021: A foundation in Aboriginal and Torres Strait Islander cultural competence.
2019: Fellow of the Institute of Management Consultants (FIMC).
2019: Certified Management Consultant (CMC).
2016: Chartered Statistician (CStat): Royal Statistical Society-LONDON.
2016: Chartered Scientist (CSci): The Science Council-LONDON.
2012: Graduate Statistician (GradStat): Royal Statistics Society-LONDON.
2010: ICDL version 5.0: European Computer Driving License.

# PROFESSIONAL AFFILIATIONS

World Health Organization Collaborating Centre (WHOCC) for Wector-borne and Neglected Tropical Diseases, James Cook University
Australian Institute of Tropical Health and Medicine
Fellow of the Institute of Management Consultants
Fellow of the Royal Statistical Society (RSS, 117419)
International Statistical Institute (ISI, 14981)
International Society for Environmental Epidemiology
The International Environmetrics Society (TIES, 14981)
International Biometric Society (IBS, 1171092)
American Society of Tropical Medicine and Hygiene

### Skills and Competencies

- Statistical analysis software: SAS, WINBUGS, SaTScan, Minitab, SPSS, S Plus (Working knowledge; Bioconductor, Octave, Matlab )
- Programming environment: R
- Geographical Information: QGIS, DIVA, ARCVIEW, SAGA-GIS

# PROFESSIONAL SERVICES

### Editorial boards

- 2021- present: Associate Editor, Scientific African
- 2020- present: Early Career Researcher Initiative (ECRI) Advisory Panel- Environmental Health Perspective— IF 9.031
- 2020- present: Associate Editor, Therapeutic Advances in Infectious Disease
- 2019- present: Associate Editor, BMC Public Health— IF 3.295

# PUBLICATION

***Peer-reviewed papers*: ‡Joint first author**

1. **Adegboye O**, Field MA, Kupz A, Pai S, Sharma D, Smout MJ, Wangchuk P, Wong Y, Loiseau C. 2021. Natural-product-based solutions for tropical infectious diseases. In press *Clinical Microbiology Review* 34:e00348-20. https://doi.org/10.1128/CMR.00348-20.
2. Henry C Ezechukwu, Cornelius A Diya, Ifunanya J Egoh, Mayowa J Abiodun, John-Ugwuanya A Grace, Godspower R Okoh, Kayode T Adu, **Oyelola A Adegboye** (2021). Lung microbiota dysbiosis and the implications of SARS-CoV-2 infection in pregnancy. *Therapeutic Advances in Infectious Disease*, 8. DOI: 10.1177/ 2049936121103245
3. Pak, A., **Adegboye, O. A.** (2021). The Importance of Structural Factors in COVID-19 Response in Western Pacific. *Asia Pacific Journal of Public Health*. DOI: 10.1177/10105395211035932
4. **Adegboye, O. A.**, Eisen, D. P., & McBryde, E. S. (2021). Tropical Australian Health-Data Linkage Shows Excess Mortality Following Severe Infectious Disease Is Present in the Short-Term and Long-Term after Hospital Discharge. *Healthcare*, 9 (7) https://doi.org/10.3390/healthcare9070901

5. Pak, A., **Adegboye, O. A.**, Eisen, D. P., & McBryde, E. S. (2021). Hospitalisations related to lower respiratory tract infections in Northern Queensland. *Australian and New Zealand Journal of Public Health*. https://doi.org/10.1111/1753-6405.13104

6. **Adegboye O**, Gayawan E, James A, Adegboye A, Elfaki F (2021). Bayesian spatial modelling of Ebola outbreaks in Democratic Republic of Congo through the INLA-SPDE approach. Zoonoses and Public Health. https://doi.org/10.1111/zph.12828

7. Pak A, Eisen DP, McBryde ES, **Adegboye, O.,†** (2021). Hospitalisation for lower respiratory tract infection is associated with an increased incidence of acute myocardial infarction and stroke in tropical Northern Australia. Scientific Reports. 11(1):1-8. https://doi.org/10.1038/s41598-021-86301-3

8. **Adegboye OA**, Adekunle AI, Pak A, Gayawan E, Leung DH, Rojas DP, Elfaki F, McBryde ES, Eisen DP (2021). Change in outbreak epicentre and its impact on the importation risks of COVID-19 progression: A modelling study. Travel Medicine and Infectious Disease. 1;40:101988. https://doi-org.elibrary.jcu.edu.au/10.1016/j.tmaid.2021.101988

9. Pak Anton, McBryde E, **Adegboye, O.,†** 2021. Does high public trust amplify compliance with stringent COVID-19 government health guidelines? A multi-country analysis using data from 102,627 individuals. Accepted in *Risk Management and Healthcare Policy*.

10. Alassar MM, **Adegboye OA ‡**, Emeto TI, Rahman KM, Mashood LO, Elfaki FAM. (2020) Severe dehydration among cholera patients in Yemen: A cohort profile. *GERMS*, 10(4):338-345. https://doi:10.18683/germs.2020.1226

11. Emeto, T.I.; **Adegboye, O.A.‡**; Rumi, R.A.; Khan, M.-U.I.; Adegboye, M.; Khan, W.A.; Rahman, M.; Streatfield, P.K.; Rahman, K.M. (2020) Disparities in Risks of Malaria Associated with Climatic Variability among Women, Children and Elderly in the Chittagong Hill Tracts of Bangladesh. *Int. J. Environ. Res. Public Health* , 17, 9469. https://doi.org/10.3390/ijerph17249469

12. Pewan, S.B.; Otto, J.R.; Kinobe, R.T.; **Adegboye, O.A.**; Malau-Aduli, A.E.O. (2020) MARGRA Lamb Eating Quality and Human Health-Promoting Omega-3 Long-Chain Polyunsaturated Fatty Acid Profiles of Tattykeel Australian White Sheep: Linebreeding and Gender Effects. *Antioxidants* , 9, 1118 https://doi.org/10.3390/antiox9111118

13. Gayawan, E., Awe, O., Oseni, B., Uzochukwu, I., Adekunle, A., Samuel, G., . . . **Adegboye, O.A.†** (2020). The spatio-temporal epidemic dynamics of COVID-19 outbreak in Africa. *Epidemiology and Infection*, 148, E212. https://doi:10.1017/S0950268820001983

14. T Saffary, **OA Adegboye ‡**, E Gayawan, F Elfaki, Md Kuddus and R Saffary (2020). Analysis of COVID-19 cases spatial dependence in US counties reveals health inequalities. *Frontiers in Public Health* https://doi.org/10.3389/fpubh.2020.579190

15. Gayawan, E., Awe, O., Oseni, B.M., Uzochukwu, I.C., Adekunle, A.I., Samuel, G., Eisen, D. and **Adegboye, O. †** (2020). The spatio-temporal epidemic dynamics of COVID-19 outbreak in Africa. *Epidemiology and infection* https://doi.org/10.1017/S0950268820001983.

16. Adekunle, A. I., **Adegboye, O.,** Gayawan, E., and McBryde, E. (2020). Is Nigeria really on top of COVID-19? Message from effective reproduction number. *Epidemiology and infection*. https://doi.org/10.1017/S0950268820001740.

17. Manchal N, **Adegboye OA**, Eisen DP(2020). A systematic review on the health outcomes associated with non- endocarditis manifestations of chronic Q fever. *European Journal of Clinical Microbiology & Infectious Diseases* . https://doi.org/10.1007/s10096-020-03931-7.

18. Meehan MT, Rojas DP, Adekunle AI, **Adegboye OA**, Caldwell JM, Turek E, Williams B, Trauer JM, McBryde ES. (2020). Modelling insights into the COVID-19 pandemic. *Paediatric Respiratory Reviews,*. https://doi.org/10.1016/j.prrv.2020.06.014

19. McBryde ES, Meehan MT, **Adegboye OA**, Adekunle AI, Caldwell JM, Pak A, Rojas DP, Williams B, Trauer JM. (2020). Role of modelling in COVID-19 policy development. *Paediatric Respiratory Reviews*. https://doi.org/10.1016/j.prrv.2020.06.013

20. Shedrach Benjamin Pewan, John Roger Otto, Roger Huerliman, Alyssa Maree Budd, Felista Waithira Mwangi, Richard Edmunds, Benjamin William Behrens Holman, Michelle L.E. Henry, Robert T. Kinobe, **Oyelola A. Adegboye**, Aduli Enoch Othniel Malau-Aduli (2020). Genetics of Omega-3 Long-Chain Polyunsaturated Fatty Acid Metabolism and Meat Eating Quality in Tattykeel Australian White Lambs. *Genes*, 11(5), 587. https://doi.org/10.3390/genes11050587

21. Pak A, **Adegboye OA ‡**, Adekunle AI, Rahman KM, McBryde ES, Eisen DP (2020). Economic consequences of the COVID-19 outbreak: the need for epidemic preparedness. *Front. Public Health, 8; 241* https://doi:.org/10.3389/fpubh.2020.00241

22. **Adegboye OA**, Adekunle AI, Gayawan E (2020). Early Transmission Dynamics of Novel Coronavirus (COVID-19) in Nigeria. *Int. J. Environ. Res. Public Health* , 17, 3054. https://doi.org/10.3390/ijerph17093054

23. Yousif Y, Elfaki F, Hrairi M, and **Adegboye OA †**(2020). A Bayesian Approach to Competing Risks Model with Masked Causes of Failure and Incomplete Failure Times. *Mathematical Problems in Engineering*. https://doi.org/10.1155/2020/8248640

24. Eisen DP. , McBryde ES, Vasanthakumar L, Murray M, Harings M and **Adegboye OA †** (2020). Linking administrative datasets of inpatient infectious diseases diagnoses in Far North Queensland: A cohort profile. *BMJ Open, 10(3), p.e034845.*. http://dx.doi.org/10.1136/bmjopen-2019-034845

25. Malabu UH, **Adegboye OA**, Hayes OG, Ryan A, Vangaveti VN, Jhamb S, Robertson K and Sangla KS. (2020). Influence of ethnicity on outcomes of diabetes inpatient hypoglycemia-an Australian Perspective. *Journal of the Endocrine Society* 4 (2), 1-8. https://doi.org/10.1210/jendso/bvaa009

26. Bidmos MA, Adebesin AA, Mazengenya P, Olateju OI, **Adegboye OA†** (2020). Estimation of sex from metatarsals using discriminant function and logistic regression analyses. *Australian Journal of Forensic Sciences*. https://doi-org/10.1080/00450618.2019.1711180

27. **Adegboye OA.**, McBryde ES, Eisen DP. (2019). Epidemiological analysis of association between lagged meteorological variables and pneumonia in wet-dry tropical North Australia, 2006 to 2016. *Journal Of Exposure Science And Environmental Epidemiology*. https://doi.org/10.1038/s41370-019-0176-8

28. Kuddus, MA., McBryde, ES., **Adegboye OA†** (2019). Delay effect and burden of weather-related tuberculosis cases in Rajshahi province, Bangladesh, 2007-2012. *Scientific report*,9,12720. https://doi.org/10.1038/s41598-019-49135-8

29. Adegboye MA, Olumoh J, Saffary T, Elfaki FA, **Adegboye OA†** (2019). Effects of time-lagged meteorological variables on attributable risk of leishmaniasis in central region of Afghanistan. *Science of Total Environment* 685, 533-541. https://doi.org/10.1016/j.scitotenv.2019.05.401

30. **Adegboye OA**, Fujii T and Leung DHY. (2019). Refusal bias in HIV data from the Demographic and Health Surveys: Evaluation, critique and recommendations. *Statistical Methods in Medical Research*,0(0),1-16. https://doi.org/10.1177/0962280219844536

31. Adekunle AI, **Adegboye OA**, Kazi RM. (2019). Flooding in Townsville, North Queensland, Australia in February 2019 and its effects on mosquito borne diseases. *Int. J. Environ. Res. Public Health* 16(8), 1393. https://doi.org/10.3390/ijerph16081393

32. Hanna F, Daas RN, El-Shareif TJ, Al-Marridi HH, Al-Rojoub ZM and **Adegboye OA†** (2019) The Relationship Between Sedentary Behavior, Back Pain, and Psychosocial Correlates Among University Employees. Front. Public Health 7:80.
https://doi.org/10.3389/fpubh.2019.00080

33. **Adegboye OA**, Adegboye M, Saffary T and Elfaki F. (2019). Individual and network characteristic associated with hospital-acquired Middle East Respiratory Syndrome coronavirus, *Journal of Infection and Public Health* 12(3), 343-349.
https://doi.org/10.1016/j.jiph.2018.12.002.

34. **Adegboye OA** and Elfaki F. (2018). Network Analysis of MERS Coronavirus within Households, Communities, and Hospitals to Identify Most Centralized and Super-Spreading in the Arabian Peninsula, 2012 to 2016, *Canadian Journal of Infectious Diseases and Medical Microbiology*, vol. 20188.
https://doi.org/10.1155/2018/6725284

35. Bidmos MA, Dayal M, **Adegboye OA†** (2018). Measurements of the talus in the assessment of population affinity. *Forensic Science International.* 287, 221. e1-221. e7
https://doi.org/10.1016/j.forsciint.2018.03.016

36. **Adegboye OA,** Leung DHY and Wang YG (2018). Analysis of spatial data with a nested correlation structure. *Journal of the Royal Statistical Society Series C: Applied Statistics*, 67 (2), 329-354.
http://onlinelibrary.wiley.com/doi/10.1111/rssc.12230/full

37. **Adegboye OA,** Gayawan E, and Hanna F. (2017). Spatial modelling of contribution of individual level risk factors for Mortality from Middle East Respiratory Syndrome Coronavirus in the Arabian Peninsula. *PLOS ONE*, 12(7).
https://doi.org/10.1371/journal.pone.0181215

38. **Adegboye OA** and Adegboye M,(2017) Spatially correlated time series and ecological niche analysis of cutaneous leishmaniasis in Afghanistan *International Journal of Environmental Research and Public Health*,14(3);1-14.
https://doi.org/10.3390/ijerph14030309

39. **Adegboye OA,** Al-Saghir M and Leung DHY (2016) Joint spatial time series epidemiological analysis of malaria and cutaneous leishmaniasis. *Epidemiology and Infection*,145; 685-700.
https://doi.org/10.1017/S0950268816002764

40. Khatab K, **Adegboye OA** and Mohammed TI (2016). Social and Demographic Factors Associated with Morbidities in Young Children in Egypt: A Bayesian Geo-Additive Semi-Parametric Multinomial Model. *PLOS ONE*, 11(7).
https://doi.org/10.1371/journal.pone.0159173

41. **Adegboye OA** and Jawid A (2016). Multivariate Multilevel Models for Attitudes Towards Statistics: A Multi-disciplinary Settings in Afghanistan. *Journal of Applied Statistics*, 43(1); 244-261.
http://dx.doi.org/10.1080/02664763.2015.1091445

42. **Adegboye OA** and Kotze D (2014). Causes and patterns of Morbidity and Mortality in Afghanistan: Joint Estimation of Multiple Causes in the Neonatal Period. *Canadian Studies in Population*, 41; no. 12 (spring/summer 2014); 164178.

43. **Adegboye OA,** Kotze D, and Adegboye OA (2014). Multi-year Trend Analysis of Childhood Immunization Uptake and Coverage in Nigeria. *Journal of Biosocial Science*, 46(2); pp225-239.

http://dx.doi.org/10.1017/S0021932013000254

44. **Adegboye OA** and Kotze D(2014). Epidemiological analysis of spatially misaligned data: A case of highly pathogenic avian influenza virus outbreak in Nigeria. *Epidemiology and Infection*, 142; 940-949.
http://dx.doi.org/10.1017/S0950268813002136

45. **Adegboye OA** and Kotze D (2013). An exploratory look at associated factors of poverty on educational attainment in Africa and in-depth multi-level modeling for Namibia. *Journal of Studies in Economics and Econometrics*, 37(1).
http://www.ber.ac.za/see/2093.aspx

46. **Adegboye OA** and Kotze D (2012). Bayesian spatial analysis and disease mapping of leishmaniasis outbreak in Afghanistan, 2003-2009. *Asian Pacific Journal of Tropical Disease*, 2(4); pp253-259.

47. **Adegboye OA** (2010). Under-five mortality in Nigeria: Spatial exploration and spatial scan statistics for cluster detection. *International Journal of Statistics and Systems*, 5(2); pp203-214.

48. **Adegboye OA** (2008). The influence of psychological and societal factors on student's performance in mathematics at the senior secondary school level. *Zimbabwe Journal of Education Research*, 20(3); pp317-332. http://www.ajol.info/index.php/zjer/article/view/44059

49. **Adegboye OA** (2006). Modeling the effects of Gender, Age of entry, and Mode of entry on students graduating grade. Hierarchical Log-Linear Approach. *ABACUS, Journal of Mathematical Association of Nigerian*, 33(2A); pp51-62.

50. **Adegboye OA** and Adegboye AO [2004]. The use of mathematics in solving man's problems. *ABACUS, Journal of Mathematical Association of Nigerian*, 28(1); pp67-77.

51. **Adegboye O**A (2012). Microbial dose-infection assessment of campylobacter jejuni. *International Journal of Statistics and Analysis*, 2(2); pp107-114.

52. **Adegboye OA** & Adegboye OA (2006). Influence of job satisfaction on lecturers' productivity in Federal College of Education, Yola. *Journal of Vocational Education Kontagora, Nigeria.* 5(2); 139-150.

53. **Adegboye, O.A.** & Adegboye, O.A. (2006) The roles of students' entry qualification on their achievement in Mathematics, a case study of AAUN, Yola. VOCTECH. 6(1); 9-14.

***Working papers***

54. **Adegboye OA.**, Fujii T. and Leung DHY. (2019) Refusal bias in HIV data from the Demographic and Health Surveys: Evaluation, critique and recommendations. *Singapore Management University Economics and Statistics Working Paper Series, Paper No. 06-2019*
http://ssrn.com/abstract=3232931

55. **Adegboye OA.,** Leung, D.H.Y and Wang, Y.G. (2015). Spatio-temporal modelling of zero-truncated disease patterns. *Special issue of GRASPA Working Papers. ISSN 2037-7738.*
http://www.graspa.org/wp-content/uploads/2015/06/Graspa2015-Proceedings.pdf