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| CONTACT INFORMATION | <p>Department of Statistical Science, Box 90251, 222 Old Chemistry Duke University, Durham NC 27708-0251 Phone: (919)-536-8673 Email: olanrewaju.akande@duke.edu Web: https://akandelanre.github.io</p> |
| RESEARCH INTERESTS | <p>Bayesian modeling, models for editing erroneous data, multiple imputation, missing data, mixture models, and hierarchical modeling.</p> |
| EDUCATION | <p><u>Ph.D in Statistical Science, Duke University</u> 2019 Dissertation: “Bayesian Models for Imputing Missing Data and Editing Erroneous Responses in Surveys” Advisor: Jerome P. Reiter</p> <p><u>M.S. in Statistical and Economic Modeling, Duke University</u> 2015 Thesis: “A Comparison of Multiple Imputation Methods for Categorical Data” Advisors: Jerome P. Reiter and Fan Li</p> <p><u>B.Sc. in Mathematics and Statistics, University of Lagos, Nigeria</u> 2010 First class honors</p> |
| RESEARCH EXPERIENCE | <p><u>Research Assistant</u> 2014 - 2019 <i>Department of Statistical Science, Duke University</i> <i>Supervisor: Dr. Jerome P. Reiter</i></p> <p>Developed nonignorable models for simultaneously dealing with unit and item nonresponse in survey data using auxiliary marginal information. Developed edit-imputation model for handling both missing data and measurement error in household data with structural zeros. Conducted empirical comparison of multiple imputation methods for categorical data.</p> <p><u>Summer Research Fellow</u> Summer 2017 <i>U.S. Food and Drug Administration</i> <i>Office of Biostatistics, Center for Drug Evaluation and Research</i> <i>Supervisors: Dr. Abel Eshete and Dr. Solomon Chefo</i></p> <p>Evaluated several missing data methods, including multiple imputation and mixed effect models, for estimating drug effectiveness in clinical</p> |

trials data on ophthalmic drugs. Developed and implemented selection models for missing not at random imputations for mixed data.

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| PUBLICATIONS | <p>Akande, O., Li, F. and Reiter, J. P. (2017), “An Empirical Comparison of Multiple Imputation Methods for Categorical Data”, <i>The American Statistician</i>, 71:2, 162-170.</p> <p>Akande, O., Barrientos, A. F. and Reiter, J. P. (2018), “Bayesian Simultaneous Edit and Imputation For Household Data with Structural Zeros”, <i>Journal of Survey Statistics and Methodology</i>.</p> <p>Akande, O., Reiter, J. P. and Barrientos, A. F. (2019), “Multiple Imputation of Missing Values in Household Data with Structural Zeros”, <i>Survey Methodology</i>, forthcoming.</p> |
| ARTICLES IN PREPARATION | <p>Akande, O., Madson, G., Hillygus, D. S. and Reiter, J. P., “Leveraging Auxiliary Information on Marginal Distributions in Nonignorable Models for Item and Unit Nonresponse in Surveys”, in preparation.</p> <p>Akande, O. and Reiter, J. P., “Multiple Imputation for Nonignorable Item Nonresponse in Complex Surveys Using Auxiliary Margins”, in preparation.</p> |
| SOFTWARE PACKAGES | <p>NestedCategBayesImpute: Modeling & Generating Synthetic Versions of Nested Categorical Data in the Presence of Impossible Combinations (Wang, Q., Akande, O., Hu, J., Reiter, J.P. and Barrientos, A.,)</p> |
| CONFERENCE PRESENTATIONS | <p>“Bayesian Simultaneous Edit and Imputation For Household Data with Structural Zeros”</p> <ul style="list-style-type: none"> • Joint Statistical Meetings (contributed talk), Vancouver, BC, Canada (2018) • Advances in Interdisciplinary Statistics and Combinatorics, Greensboro NC (2018) <p>“Leveraging Auxiliary Information on Marginal Distributions in Nonignorable Models for Item and Unit Nonresponse in Surveys”</p> <ul style="list-style-type: none"> • Society for Political Methodology (poster), Brigham Young University, Utah (2018) |
| TEACHING EXPERIENCE | <p><u>Instructor of Record</u> <i>Department of Statistical Science, Duke University</i> STA 111: Probability and Statistical Inference Summer 2018</p> |

Summer 2016

Summer 2014

A six-week summer introductory statistics class covering topics such as: basic laws of probability, random variables, maximum likelihood estimation, Bayesian inference, linear regression and analysis of variance, with emphasis on applications in social and natural science. Class meets every day for lectures and twice a week for labs.

Teaching Assistant

Department of Statistical Science, Duke University

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| STA 440: Case Studies (senior undergrad) | Fall 2018 |
| STA 723: Statistics Case Studies (PhD level) | Spring 2018 |
| STA 732: Theoretical Statistics (PhD level) | Spring 2017 |
| STA 111: Probability and Statistical Inference | Spring 2014 |

Guest Lecturer

Department of Statistical Science, Duke University

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| STA 210: Regression Analysis (undergrad) | Fall 2018 |
| STA 723: Statistics Case Studies (PhD level) | Spring 2018 |

TEACHING
TRAINING

Duke Certificate in College Teaching Program 2019
Coursework:

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| • GS 755: College Teaching and Course Design | Spring 2018 |
| • STA 771S: Teaching Statistics | Spring 2016 |

Other training:

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| • Teaching Observation (Teaching Triangles) | Summer 2018 |
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WORK
EXPERIENCE

Analyst 2012 - 2013

KPMG Professional Services, Nigeria

Internal Audit, Risk and Compliance Services

Analyst 2011

Aterios Capital Limited, Lagos, Nigeria

Asset Management Division

AWARDS

Presidential Special Scholarship for Innovation & Dev. 2012 - 2015

Federal Government of Nigeria

M.Sc./Ph.D scholarship

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| SERVICE | <u>Student Mentor</u> for incoming PhD students <i>Department of Statistical Science, Duke University</i> | 2018 |
| | <u>ASA DataFest@Duke</u> Co-organizer and Instructor <i>Department of Statistical Science, Duke University</i> | 2017 and 2018 |
| REFERENCES | Available on request | |