

CONTACT INFORMATION	140 Science Drive, 256 Gross Hall Box 90989, Durham NC 27708 Phone: (919)-681-1863 Email: olanrewaju.akande@duke.edu Web: https://akandelanre.github.io
RESEARCH INTERESTS	Bayesian modeling, models for editing erroneous data, multiple imputation, missing data, mixture models, and hierarchical modeling.
EDUCATION	<p><u>Ph.D in Statistical Science</u>, <i>Duke University</i> 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</u>, <i>Duke University</i> 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</u>, <i>University of Lagos, Nigeria</i> 2010 First class honors</p>
POSITIONS	
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>

Evaluated several missing data methods, including multiple imputation and mixed effect models, for estimating drug effectiveness in clinical trials data on ophthalmic drugs. Developed and implemented selection models for missing not at random imputations for mixed data.

PEER-REVIEWED 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>, 0, 1-22.</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>, 45:2, 271-294.</p>
MANUSCRIPTS UNDER REVIEW	<p>Akande, O. and Reiter, J. P., “Multiple Imputation for Nonignorable Item Nonresponse in Complex Surveys Using Auxiliary Margins,” in volume in memory of Steve Fienberg, Springer.</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>
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>
PRESENTATIONS AND POSTERS	<p>“Leveraging Auxiliary Information on Marginal Distributions in Nonignorable Models for Item and Unit Nonresponse in Surveys”</p> <ul style="list-style-type: none"> • Duke Department of Statistical Science STA701 Seminar Series (2019) • Society for Political Methodology, Brigham Young University, Utah (2018) <p>“Bayesian Simultaneous Edit and Imputation For Household Data with Structural Zeros”</p> <ul style="list-style-type: none"> • Joint Statistical Meetings, Vancouver, BC, Canada (2018) • Advances in Interdisciplinary Statistics and Combinatorics, Greensboro NC (2018)

	<ul style="list-style-type: none"> • Duke Department of Statistical Science STA701 Seminar Series (2018) <p>“Multiple Imputation of Missing Values in Household Data with Structural Zeros”</p> <ul style="list-style-type: none"> • Duke Department of Statistical Science STA701 Seminar Series (2017) 	
TEACHING EXPERIENCE	<u>Instructor of Record</u> <i>Department of Statistical Science, Duke University</i> STA 111: Probability and Statistical Inference ¹	Summer 2018 Summer 2016 Summer 2014
	<u>Teaching Assistant</u> <i>Department of Statistical Science, Duke University</i> STA 440: Case Studies (senior undergrad) STA 723: Statistics Case Studies (PhD level) STA 732: Theoretical Statistics (PhD level) STA 111: Probability and Statistical Inference	Fall 2018 Spring 2018 Spring 2017 Spring 2014
	<u>Guest Lecturer</u> <i>Department of Statistical Science, Duke University</i> STA 210: Regression Analysis (undergrad) STA 723: Statistics Case Studies (PhD level)	Fall 2018 Spring 2018
TEACHING TRAINING	<u>Duke Certificate in College Teaching Program</u> Coursework: <ul style="list-style-type: none"> • GS 755: College Teaching and Course Design • STA 771S: Teaching Statistics Other training: <ul style="list-style-type: none"> • Teaching Observation (Teaching Triangles) 	2019 Spring 2018 Spring 2016 Summer 2018
OTHER WORK EXPERIENCE	<u>Analyst</u> <i>KPMG Professional Services, Nigeria</i> Internal Audit, Risk and Compliance Services <u>Analyst</u> <i>Aterios Capital Limited, Lagos, Nigeria</i> Asset Management Division	2012 - 2013 2011

¹Evaluation reports available upon request.

PROFESSIONAL SERVICE	<u>Referee</u> <i>Demographic Research (1 July 2018 – 30 June 2019)</i>	
AWARDS	<u>Presidential Special Scholarship for Innovation & Dev.</u> <i>Federal Government of Nigeria</i> M.Sc./Ph.D scholarship	2012 - 2015
SERVICE	<u>Student Mentor</u> for incoming PhD students <i>Department of Statistical Science, Duke University</i> <u>ASA DataFest@Duke Co-organizer and Instructor</u> <i>Department of Statistical Science, Duke University</i>	2018 2017 and 2018
REFERENCES	Available on request	