
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</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>
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.

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>.</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>
SUBMITTED MANUSCRIPTS	<p>Akande, O. and Reiter, J. P., “Multiple Imputation for Nonignorable Item Nonresponse in Complex Surveys Using Auxiliary Margins”.</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) • Duke Department of Statistical Science STA701 Seminar Series (2018) <p>“Multiple Imputation of Missing Values in Household Data with Structural Zeros”</p>

- 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)	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
	<u>Guest Lecturer</u>	
TEACHING TRAINING	<i>Department of Statistical Science, Duke University</i>	
	STA 210: Regression Analysis (undergrad)	Fall 2018
	STA 723: Statistics Case Studies (PhD level)	Spring 2018
	<u>Duke Certificate in College Teaching Program</u>	2019
	Coursework:	
	• GS 755: College Teaching and Course Design	Spring 2018
	• STA 771S: Teaching Statistics	Spring 2016
	Other training:	
	• Teaching Observation (Teaching Triangles)	Summer 2018
OTHER WORK EXPERIENCE	<u>Analyst</u>	2012 - 2013
	<i>KPMG Professional Services, Nigeria</i>	
	Internal Audit, Risk and Compliance Services	
	<u>Analyst</u>	2011
	<i>Aterios Capital Limited, Lagos, Nigeria</i>	
	Asset Management Division	
AWARDS	<u>Presidential Special Scholarship for Innovation & Dev.</u>	2012 - 2015
	<i>Federal Government of Nigeria</i>	
	M.Sc./Ph.D scholarship	

¹Evaluation reports available upon request.

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	