AMY GRACE VAUGHAN

Associate Professor of Statistics Zimpleman College of Business Drake University amy.vaughan@drake.edu

EDUCATION	UNIVERSITY OF GEORGIA Ph.D. in Statistics	ATHENS, GA	
	December 2009 Master of Science in Statistics May 2006		
	GEORGIA SOUTHERN UNIVERSITY Master of Business Administration May 2001	STATESBORO, GA (Accredited by AACSB)	
	MURRAY STATE UNIVERSITY Honors Bachelor of Arts in Business Administration May 1999	MURRAY, KY (Accredited by AACSB)	
WORK HISTORY August 2009 to present	Associate Professor of Statistics Drake University	Des Moines, IA	
	Teach Stat 71 and 72, covering central tendency and spread, confidence intervals, tests of significance, probability, binomial and normal distributions, analysis of variance, correlation, multiple regression, nonparametric tests, and contingency tables. Teach Stat 170 on advanced multiple regression, model goodness of fit, residual analysis, data transformations, time series, and ARMA models with programming in R. Taught Stat 60 for Pharmacy majors, consisting of similar topics to Stat 71 with experimental design added. Taught MFM 212 on data analysis and decision-making consisting of time series, probability, probability distributions, sampling and estimation, hypothesis testing, and multiple regression.		
July 2014 – 2016, 2018-19, and 2021-24	Visiting Professor University of International Business and Economics	Beijing, China	
	Taught Applied Data Analysis for Numerous Data Types - Using Excel which covered multiple sample hypothesis testing on parametric and nonparametric datasets and multiple regression. Also taught Introductory Regression and Time Series - with R Programming which covered exploratory data analysis, advanced aspects of multiple regression, and time series concepts including ARMA models, all programmed in R software.		
August 2007 to May 2009	Graduate Assistant University of Georgia	Athens, GA	
	Conducted computer lab sessions and graded homework for courses covering experimental design, quality assurance, SAS programming, statistical consulting, generalized linear models, and regression estimation and inference methods.		

August 2005 to August 2007	Graduate Teaching Assistant University of Georgia	Athens, GA	
	Taught a statistical methods course consisting of one- and two-population tests about means, proportions, and variance; probability basics; contingency tables; goodness-of-fit tests; non-parametric tests; analysis of variance; simple experimental designs; linear regression and residual diagnostics.		
Summer 2006 to Summer 2016	Advanced Placement Exam Reader Educational Testing Services		
	Graded the free response section of the AP St	atistics exam given to high school students.	
Jan 2004 to August 2005	Graduate Teaching Assistant University of Georgia	Athens, GA	
	Taught an introductory statistics course cover numerical and graphical descriptive methods, tables, probability concepts and distributions, for means and proportions.	correlation and regression, contingency	
PUBLICATIONS	Voorhees, Bret, Kannass, Kathleen, and Vaughan, Amy Grace. The Importance of Training to Manage a Church as a Predictor of Emotional Exhaustion and Ministry Satisfaction. <i>Accepted to Journal of Pastoral Care & Counseling</i> .		
	Anderson, Jerry L. and Vaughan, Amy Grace (2023). Environmental Penalties: Discretion and Disparity. <i>Stanford Environmental Law Journal</i> , 42(1), 1-58.		
	Huey, M., Silvey, P., Vaughan, A.G., and Fish Standards-based Grading Policy Changes on S Completion in Secondary Mathematics. <i>Stud</i> 10.		
	Mitchell, A. and Vaughan, A.G. (2022). Imp From a Database Class. <i>Journal of Informatic</i> <i>Practice</i> , 21, 1-23.		
	Staub, C.M., Vaughan, A.G., and Dorion, A. (2021). Framing women's roles in 20th century farming: A content analysis of cover images from Successful Farming and The Farm Journal. <i>The Journal of Magazine Media</i> , 21(2), 45-79.		
	Kjos, A., Vaughan, A. and Bhargava, A. (2019). Impact of a Mobile App on Medication Adherence-Related Beliefs in Patients with Type 2 Diabetes. <i>The Journal of the American Pharmacists Association</i> , 59, S44-S51.		
	Roberts, T., Johnson, J., and Vaughan, A. (2019). Canagliflozin in Type 1 Diabetes: A Case Series of Patient Outcomes in a Diabetes Clinic. <i>Diabetes Spectrum</i> , 1, 47-51.		
	Wildermuth, C., Vaughan, A. and Cristo-Bak Personality, Psychological Conditions, and En Psychological Issues in Organizational Cultu	motional Engagement. Journal of	

Bhargava, A., Gleason, S., Vaughan, A., Johnson, J., and Yarlagadda, K. (2013) The Effect of Pioglitazone and Extended-Release Niacin on HDL-Cholesterol in Diabetes Patients in a Real-World Setting. *International Journal of Clinical Practice*, 67, 1151-1158.

Houle, P., Reed, D., Vaughan, A. and Clayton, S. (2013) Using Laptop Computers in Class: A Student Motivation Perspective. *Journal of Learning in Higher Education*, 9, 83-92.

Vaughan, A., Mikyoung, J., and Park, C. (2012). Statistical Inference and Visualization in Scale-Space for Spatially Dependent Images. *Journal of the Korean Statistical Society*, 41, 115-135.

Litten, J., Vaughan, A., and Wildermuth, C. (2011). The Fabric of Engagement: The Engagement and Personality of Managers and Professionals in Human and Developmental Disability Services. *Journal of Social Work in Disability & Rehabilitation*, 10, 189-210.

Park, C., Vaughan, A., Hannig, J., and Kang, K. (2009). SiZer Analysis for the Comparison of Time Series. *Journal of Statistical Planning and Inference*, 139, 3974-3988.

PRESENTATIONS March 2016. Kjos, A. Vaughan, A. Bhargava, A. "Impact of Smart-Device Mobile Application on Medication Self-Management in Patients with Type 2 Diabetes." Poster presentation at the 163rd Annual Meeting of the American Pharmacists Association, Baltimore, Maryland.

July 2015. 3rd University of International Business and Economics International Affairs Summer Forum. Beijing, China.

July 2013. Impact of an Innovative, User-Centered Technology on Medication Self-Management. American Association of Colleges of Pharmacy Annual Meeting. Poster presented by coauthor Dr. Andrea Kjos. Chicago, IL.

May 2013. Using Laptop Computers in Class: A Student Motivation Perspective. International Conference on Learning and Administration in Higher Education 2013. Nashville, TN.

October 2010. SiZer Analysis for Time Series and Spatially Dependent Data. College of Business and Public Administration Research Colloquium. Drake University, Des Moines, IA.

October 2008. SiZer Analysis in Imaging Data. Network of Greater Georgia Institutions of Neuroimaging and Statistics (NOGGINS) Workshop. University of Georgia, Athens, GA.

AWARDS Social Impact Research Award. 2024. Drake University, Zimpleman College of Business.

Top 20 articles selected for the 2023 Environmental Law and Policy Annual Review. 2023. Environmental Law Institute's (ELI) Environmental Law Reporter and Vanderbilt University Law School.

David B. Lawrence Undergraduate Teacher of the Year Award, 2023 and 2015. Drake University, Zimpleman College of Business.

Presentation Excellence Award. May 2013. International Conference on Learning and Administration in Higher Education 2013. Nashville, TN.		
Best Paper Award. May 2013. International Conference on Learning and Administration in Higher Education 2013. Nashville, TN.		
R, SAS, SPlus, Matlab, LaTex, SPSS, AMOS, Microsoft Office, Windows 95, Blackboard, WebCt		
Faculty Search Committees College of Business and Public Administration	September 2011 – present	
Sigma Alpha Epsilon Faculty Advisor Drake University	August 2012 – present	
Alpha Kappa Psi Faculty Advisor Drake University	August 2013 – present	
Women's Club Volleyball Faculty Advisor Drake University	August 2013 – present	
Women in Business Faculty Advisor Drake University	August 2018 – present	
Spikeball Club Faculty Advisor Drake University	January 2024 – present	
Undergraduate Curriculum Redesign Committee College of Business and Public Administration	November 2017 – February 2019	
Assessment Coordinator College of Business and Public Administration	Summer 2011 – December 2018	
Drake Curriculum Analysis Committee (DCAC) Drake University	March 2013 – December 2018	
Supervisor of Statistics Tutoring Lab College of Business and Public Administration	September 2010 – May 2016	
Member of Undergraduate Curriculum Committee College of Business and Public Administration	September 2010 – May 2015	
Member of Information Security Advisory Committee Drake University	December 2010 – May 2012	
Coordinator of Departmental Research Colloquiums College of Business and Public Administration	October 2009 – May 2011	
	Administration in Higher Education 2013. Nashville, T Best Paper Award. May 2013. International Conference in Higher Education 2013. Nashville, TN. R, SAS, SPlus, Matlab, LaTex, SPSS, AMOS, Microso Blackboard, WebCt Faculty Search Committees College of Business and Public Administration Sigma Alpha Epsilon Faculty Advisor Drake University Alpha Kappa Psi Faculty Advisor Drake University Women's Club Volleyball Faculty Advisor Drake University Women in Business Faculty Advisor Drake University Spikeball Club Faculty Advisor Drake University Undergraduate Curriculum Redesign Committee College of Business and Public Administration Assessment Coordinator College of Business and Public Administration Drake Curriculum Analysis Committee (DCAC) Drake University Supervisor of Statistics Tutoring Lab College of Business and Public Administration Member of Undergraduate Curriculum Committee College of Business and Public Administration Member of Information Security Advisory Committee Drake University Coordinator of Departmental Research Colloquiums	