Karsten Tait Maurer

Assistant Professor of Statistics
College of Arts Sciences Armstrong Interactive Media Studies Endowed Professor

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CONTACT INFORMATION

Department of Statistics
Miami University
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EDUCATION

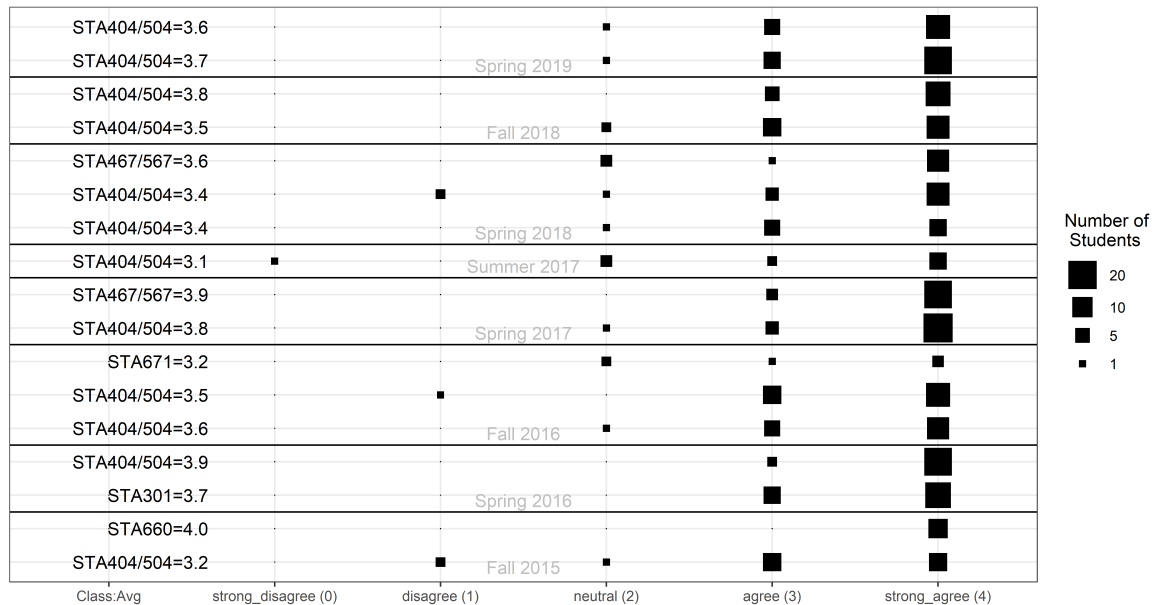|		
Ph.D., Statistics, 2015		Iowa State University, Ames IA
M.S., Statistics, 2011		Iowa State University, Ames IA
B.A., Statistics and History, 2009		University of Minnesota Morris, Morris MN

SPONSORED RESEARCH

ASA-NCTM Joint Committee [$11750] - K12 Educators Workshop	Summer 2019
Air Force Research Lab [$10000] - Research Extension Grant	Fall 2018
Air Force Research Lab [$15500] - Visiting Faculty Researcher	Summer 2018
Miami University [$5000] - CAS Summer Research Appointment	Forgone 2018
Miami University [$5000] - CFR Summer Research Appointment	Summer 2017
Air Force Research Lab [$21500] - Summer Faculty Fellowship	Summer 2016

TEACHING

Miami University, Oxford OH   Spring 2016-Fall 2018

- STA 301, Applied Statistics (1 Section)
- STA/IMS/JRN 404/504, Advanced Data Visualization (9 Sections)
- STA 467/567, Statistical Learning (2 Section)
- STA 477/600, Independent Studies in Statistics (7 students)
- STA 671, Environmental Statistics (1 Section)

Student Evaluation of Instructional Effectiveness
Student Reponses to: 'Upon reflection, this instructor is an effective teacher.'

PUBLICATION **Maurer K.** Hudiburgh L., Werwinski L., Bailer A.J., (2019) [In-Press] *Content Audit for P-value Principles in Introductory Statistics* (The American Statistician)

Maurer K. Osthus D., Loy A., (2019) *A tale of four cities: exploring the soul of State College, Detroit, Milledgeville and Biloxi* (Computational Statistics)

Garrett R., Nar A., Fisher T., **Maurer K.**, (2018) *ggvoronoi: Voronoi Diagrams and Heatmaps with ggplot2* (Journal of Open Source Software, 3(32), 1096)

Alessio H., **Maurer K.**, (2018) *The Impact of Video Proctoring in Online Courses* (Journal on Excellence in College Teaching, 29(34))

Alessio H., Malay N., **Maurer K.**, Bailer J., Rubin B., (2018) *Interaction of Proctoring and Student Major on Online Test Performance* (The International Review of Research in Open and Distributed Learning)

Miljkovic T., Miljkovic D., **Maurer K.**, (2018) *Examining the Impact on Mortality Arising from Climate Change: Important Findings for the Insurance Industry* (European Actuarial Journal)

Alessio H., Malay N., **Maurer K.**, Bailer J., Rubin B. (2017), *Examining the Effect of Proctoring on Online Test Scores* (Online Learning Journal)

Maurer K., Lock D. (2016), *Comparison of Learning Outcomes for Randomization-Based and Traditional Inference Curricula in a Designed Educational Experiment* (Technology Innovations in Statistics Education, Volume 8)

SUBMITTED MANUSCRIPTS **Maurer K.**, Bennette W., *Facility Locations Utility for Uncovering Classifier Over-confidence* (ICML)

Maurer K., Hudiburgh L., Werwinski L., *Stake Your Claims: Comparing Probability Lab Activities using a Dice Game vs. Word Problems* (Teaching Statistics)

Maurer K., Hofmann H., *A shiny New Opportunity to Interact with Large Databases in Introductory Statistics* (TISE)

Maurer K., *Iterative Quantile Nearest-Neighbors* (SCDA)

ONGOING RESEARCH PROJECTS Garrett R., Fisher T., **Maurer K.**, *Voronoi Diagram Applications*

Swart D., **Maurer K.**, Hudiburgh L., *Comparison of Instructor and Publisher Created Homework Sets for Introductory Statistics*

Woodbury G., **Maurer K.**, Kim S., *Individual Visual Inference: Lady Tasting Tea Lineup Plots*

Grudsinski et al. *Beaver Dam Ecological Meta-Analysis*

Maurer K., Bennette W., Wang Y., Underwood A., *Bin-Weighted Ensemble Classifiers*

Maurer K., Vanderplas S., Hofmann H., *Developing and Evaluating Loss Functions for Binned Scatterplots Under Random and Standard Binning Algorithms*

PRESENTATION	*"Iterative Quantile Nearest-Neigbhbors"*	July 2018
	Joint Statistical Meetings, Vancouver BC	
	"Fantasy Basketball For Statistical Learning"	May 2018
	Electronic Conference on Teaching Statistics, Online	
	"Bin-Weighted Ensemble Classifiers"	July 2017
	Joint Statistical Meetings, Baltimore MD	
	"Traditional vs. Simulation-Based:	August 2016
	Curricula Comparison in a Small Scale Educational Experiment"	
	Joint Statistical Meetings, Chicago IL	

UNIVERSITY SERVICE	*Member*, Dept. of Statistics TCPL Hiring Search Committee	Spring 2019
	Member, CAS Committee on Big Ideas in Digital Media	Spring 2018
	Member, Dept. of Statistics Undergraduate Curriculum Committee	Spring 2018
	Member, Dept. of Statistics Grad Ed Committee	Fall 2016 - Present
	Member, Miami Datafest Committee	Fall 2015 - Present
	Member, Dept. of Statistics Hiring Search Committee	Fall 2016
	Panelist, New Faculty Orientation Panel	Fall 2016
	Volunteer, Make It Miami Department Representative	Spring 2016-Present
	Volunteer, Bridges Program Workshop Instructor	Fall 2017-2018
	Volunteer, Careers Involving Quantitative Science (CIQS) Day	Winter 2016-2018

PROFESSIONAL SERVICE	*Judge*, Undergraduate Research Project Competition	Summer 2016
	Peer Reviewer, Journal for Statistical Education	Spring 2016 - Present

COMMUNITY SERVICE	*Instructor*, Client Data Visualization Projects	Fall 2015 - Spring 2017

- Miami EHWB - Gym and Benefit Usage App
- Cincinnati Shakespeare Co. - Ticket Sales App (Redesign)
- Butler County Health - Interactive Infant Mortality Report App
- St. Louis County EMS - Emergency Response Times App
- Scripps Gerontology Center - Nursing Facility Survey App

OTHER EXPERIENCE	*Member*, Miami University NFRC	Fall 2016
	Member, Miami University NFTEP	Spring 2016