

# Karsten Tait Maurer

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## CONTACT INFORMATION

Department of Statistics  
Miami University  
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## EDUCATION

Ph.D., Statistics, August 2015  
Iowa State University, Ames IA  
  
M.S., Statistics, December 2011  
Iowa State University, Ames IA  
  
B.A., Statistics and History, May 2009  
Minor in Mathematics, Graduated with Distinction  
University of Minnesota Morris, Morris MN

## HONORS

CAS Armstrong Interactive Media Studies Endowed Professorship	Summer 2018
ISU Statistics Award for Undergraduate Mentoring	Fall 2013 & 2014
2 <sup>nd</sup> Place in the 2013 ASA Data Expo	Summer 2013
ISU Statistics Alumni Scholarship	Fall 2009 - Spring 2010
University of Minnesota Morris Chancellor's Scholarship	Fall 2005 - Spring 2009
University of Minnesota Morris Dean's List	Fall 2005 - Spring 2009

## 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 EXPERIENCE

<i>Assistant Professor</i> Miami University, Oxford OH	Fall 2015 - Present
<ul style="list-style-type: none"><li>• STA 301, Applied Statistics (1 Section)</li><li>• STA/IMS/JRN 404/504, Advanced Data Visualization (12 Sections)</li><li>• STA 467/567, Statistical Learning (2 Section)</li><li>• STA 477/480/600, Independent Studies in Statistics (9 students)</li><li>• STA 660, Data Practicum (1 Section - Co-taught)</li><li>• STA 671, Environmental Statistics (1 Section)</li></ul>	
<i>Course Instructor</i> Iowa State University, Ames IA	Fall 2012 - Summer 2015
<ul style="list-style-type: none"><li>• Statistics 104, Introduction to Statistics (6 Sections)</li><li>• Statistics 305, Engineering Statistics (3 Sections)</li></ul>	
<i>Workshop Presenter</i> Iowa State University, Ames IA	Summer 2012 - Fall 2014
<ul style="list-style-type: none"><li>• "A Week of R" Workshops (seven full sequences)</li></ul>	

PUBLICATION	<b>Maurer K.</b> Hudiburgh L., Werwinski L., Bailer A.J., (2019) [In-Press] <i>Content Audit for P-value Principles in Introductory Statistics</i> (The American Statistician)	
	<b>Maurer K.</b> Osthus D., Loy A., (2019) <i>A tale of four cities: exploring the soul of State College, Detroit, Milledgeville and Biloxi</i> (Computational Statistics)	
	Garrett R., Nar A., Fisher T., <b>Maurer K.</b> , (2018) <i>ggvoronoi: Voronoi Diagrams and Heatmaps with ggplot2</i> (Journal of Open Source Software, 3(32), 1096)	
	Alessio H., <b>Maurer K.</b> , (2018) <i>The Impact of Video Proctoring in Online Courses</i> (Journal on Excellence in College Teaching, 29(34))	
	Alessio H., Malay N., <b>Maurer K.</b> , Bailer J., Rubin B., (2018) <i>Interaction of Proctoring and Student Major on Online Test Performance</i> (The International Review of Research in Open and Distributed Learning)	
	Miljkovic T., Miljkovic D., <b>Maurer K.</b> , (2018) <i>Examining the Impact on Mortality Arising from Climate Change: Important Findings for the Insurance Industry</i> (European Actuarial Journal)	
	Alessio H., Malay N., <b>Maurer K.</b> , Bailer J., Rubin B. (2017), <i>Examining the Effect of Proctoring on Online Test Scores</i> (Online Learning Journal)	
	<b>Maurer K.</b> , Lock D. (2016), <i>Comparison of Learning Outcomes for Randomization-Based and Traditional Inference Curricula in a Designed Educational Experiment</i> (Technology Innovations in Statistics Education, Volume 8)	
	Anderson J., Burks S., Carpenter J., Goette L., <b>Maurer K.</b> , Nosenzo D., Potter R., Rocha K., Rustichini A., (2013) <i>Self-selection and variations in the laboratory measurement of other-regarding preferences across subject pools: evidence from one college student and two adult samples</i> (Experimental Economics, 16(2), 170-189)	
	<b>Maurer K.</b> , Bennette W., <i>Facility Locations Utility for Uncovering Classifier Over-confidence</i> (International Conference on Machine Learning) *note: competitive peer reviewed venue	
SUBMITTED MANUSCRIPTS	<b>Maurer K.</b> , Hudiburgh L., Werwinski L., <i>What do Students Gain from Games? Dice Game vs. Word Problems</i> (Teaching Statistics)	
	<b>Maurer K.</b> , Hofmann H., <i>A shiny Opportunity to Interact with Large Databases in Introductory Statistics</i> (Technology Innovations in Statistics Education)	
	<b>Maurer K.</b> , <i>Iterative Quantile Nearest-Neighbors</i> (Computational Statistics and Data Analysis)	
PRESENTATION	<i>“Iterative Quantile Nearest-Neighbors”</i> Joint Statistical Meetings, Vancouver BC	July 2018
	<i>“Fantasy Basketball For Statistical Learning”</i> Electronic Conference on Teaching Statistics, Online	May 2018
	<i>“Bin-Weighted Ensemble Classifiers”</i> Joint Statistical Meetings, Baltimore MD	July 2017

<b>PRESENTATION (cont.)</b>	<i>“Traditional vs. Simulation-Based: Curricula Comparison in a Small Scale Educational Experiment”</i> Joint Statistical Meetings, Chicago IL	August 2016
	<i>“Comparison of Learning Outcomes from Traditional and Randomization-Based Inference Curricula in a Designed Experiment”</i> Joint Statistical Meetings, Boston MA	August 2014
	<i>“A Shiny New Opportunity for Big Data in Statistics Education”</i> International Conference on Teaching Statistics, Flagstaff AZ	July 2014
	<i>“Locating the Heart of the Community”</i> Joint Statistical Meetings, Montreal QC	August 2013
	<i>“Using R to Construct a Graphical User Interface for an Interactive Fitness Log”</i> Joint Statistical Meetings, Miami FL	August 2011
<b>UNIVERSITY SERVICE</b>	<i>Advisor</i> , Undergraduate Academic Advisor (60+ students)	Fall 2017 - Present
	<i>Advisor</i> , Graduate Research Advisor (7 students)	Fall 2016 - Present
	<i>Member</i> , Dept. of Statistics TCPL Hiring Committee	Present
	<i>Member</i> , CAS Committee on Big Ideas in Digital Media	Spring 2018
	<i>Member</i> , Dept. of Statistics Undergraduate Curriculum Committee	Spring 2018
	<i>Member</i> , Dept. of Statistics Grad Ed Committee	Fall 2016 - Present
	<i>Member</i> , Miami Datafest Committee	Fall 2015 - Present
	<i>Member</i> , Dept. of Statistics Hiring Search Committee	Fall 2016
	<i>Panelist</i> , New Faculty Orientation Panel	Fall 2016
<b>PROFESSIONAL SERVICE</b>	<i>Judge</i> , Undergraduate Research Project Competition	Summer 2016
	<i>Peer Reviewer</i> , Journal for Statistical Education	Spring 2016 - Present
	<i>Peer Reviewer</i> , The American Statistician	Winter 2015
	<i>Member</i> , Miami Datafest Committee	Fall 2015 - Present
	<i>Volunteer</i> , Careers Involving Quantitative Science (CIQS) Day	Spring 2016/2017
<b>COMMUNITY SERVICE</b>	<i>Instructor</i> , Client Data Visualization Projects	Fall 2015 - Spring 2017
	<ul style="list-style-type: none"> <li>• Miami EHWP - Gym and Benefit Usage App</li> <li>• Cincinnati Shakespeare Co. - Ticket Sales App (Redesign)</li> <li>• Butler County Health - Interactive Infant Mortality Report App</li> <li>• St. Louis County EMS - Emergency Response Times App</li> <li>• Scripps Gerontology Center - Nursing Facility Survey App</li> </ul>	
	<i>Member</i> , Miami University NFRC	Fall 2016
	<i>Member</i> , Miami University NFTEP	Fall 2015 - Spring 2016
	<i>Member</i> , ISU Graphics Working Group	Fall 2009 - Summer 2015
	<i>Coordinator</i> , ISU Graphics Working Group	Spring 2014
<b>OTHER EXPERIENCE</b>	<i>Advisor</i> , Midwest Undergraduate Data Analytics Comp.	Spring 2013 and 2014
	<i>Attendee</i> , Collaborative Undergraduate Research Workshop	Fall 2014
	<i>Treasurer</i> , STAT-ers Graduate Student Club	Fall 2012 - Summer 2013
	<i>Consultant</i> , ISU Survey and Behavioral Research Services	Fall 2011 - Spring 2012
	<i>Online Homework Assistant</i> , Stat 101 at ISU	Fall 2010 - Summer 2011
	<i>Associate Researcher</i> , UMM Trucking Safety Project	Summer 2010
	<i>Lab Instructor</i> , Stat 101 at ISU	Fall 2009 - Spring 2010