

Karsten Tait Maurer

CONTACT INFORMATION

Department of Statistics
Miami University
321 Upham Hall
Oxford, OH 45056

Office: 513-529-3404
Email: maurerkt@miamioh.edu
Webpage: kmaurer.github.io

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 nd 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">• STA 301, Applied Statistics (1 Section)• STA/IMS/JRN 404/504, Advanced Data Visualization (10 Sections)• STA 467/567, Statistical Learning (2 Section)• STA 477/600, Independent Studies in Statistics (7 students)• STA 660, Data Practicum (1 Section - Co-taught)• STA 671, Environmental Statistics (1 Section) | |
| <i>Course Instructor</i> Iowa State University, Ames IA | Fall 2012 - Summer 2015 |
| <ul style="list-style-type: none">• Statistics 104, Introduction to Statistics (6 Sections)• Statistics 305, Engineering Statistics (3 Sections) | |
| <i>Workshop Presenter</i> Iowa State University, Ames IA | Summer 2012 - Fall 2014 |
| <ul style="list-style-type: none">• "A Week of R" Workshops (seven full sequences) | |

| | | |
|----------------------------------|--|-------------|
| PUBLICATION | Miljkovic T., Miljkovic D., Maurer K. , [In-Press] <i>Examining the Impact on Mortality Arising from Climate Change: Important Findings for the Insurance Industry</i> | |
| | Alessio H., Malay N., Maurer K. , Bailer J., Rubin B. (2018), [In-Press] <i>Interaction of Proctoring and Student Major on Online Test Performance</i> (The International Review of Research in Open and Distributed Learning) | |
| | Alessio H., Malay N., Maurer K. , Bailer J., Rubin B. (2017), <i>Examining the Effect of Proctoring on Online Test Scores</i> (Online Learning Journal) | |
| | Maurer K. , 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., Maurer K. , 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) | |
| SUBMITTED MANUSCRIPTS | Maurer K. , Bennette W., <i>Facility Locations Utility for Uncovering Classifier Over-confidence</i> | |
| | Maurer K. Hudiburgh L., Werwinski L., Bailer A.J., <i>Content Audit for P-value Principles in Introductory Statistics</i> | |
| | Maurer K. , Hudiburgh L., Werwinski L., <i>Stake Your Claims: Comparing Probability Lab Activities using a Dice Game vs. Word Problems</i> | |
| | Maurer K. , <i>Iterative Quantile Nearest-Neighbors</i> | |
| MANUSCRIPTS IN PREPARATION | Maurer K. , Bennette W., Wang Y., Underwood A., <i>Bin-Weighted Ensemble Classifiers</i> | |
| | Maurer K. , Vanderplas S., Hofmann H., <i>Developing and Evaluating Loss Functions for Binned Scatterplots Under Random and Standard Binning Algorithms</i> | |
| | Maurer K. , <i>A Shiny New Opportunity for Students to Randomly Sample from Big Data Sources</i> | |
| PRESENTATION | “Iterative Quantile Nearest-Neighbors” Joint Statistical Meetings, Vancouver BC | July 2018 |
| | “Fantasy Basketball For Statistical Learning” Electronic Conference on Teaching Statistics, Online | May 2018 |
| | “Bin-Weighted Ensemble Classifiers” Joint Statistical Meetings, Baltimore MD | July 2017 |
| | “Traditional vs. Simulation-Based: Curricula Comparison in a Small Scale Educational Experiment” Joint Statistical Meetings, Chicago IL | August 2016 |
| | “Comparison of Learning Outcomes from Traditional and | August 2014 |

Randomization-Based Inference Curricula in a Designed Experiment
Joint Statistical Meetings, Boston MA

"A Shiny New Opportunity for Big Data in Statistics Education" July 2014
International Conference on Teaching Statistics, Flagstaff AZ

"Locating the Heart of the Community" August 2013
Joint Statistical Meetings, Montreal QC

"Using R to Construct a Graphical User Interface for an Interactive Fitness Log" August 2011
Joint Statistical Meetings, Miami FL

UNIVERSITY SERVICE *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, Careers Involving Quantitative Science (CIQS) Day Spring 2016/2017

PROFESSIONAL SERVICE *Judge, Undergraduate Research Project Competition* Summer 2016
Peer Reviewer, Journal for Statistical Education Spring 2016 - Present
Peer Reviewer, The American Statistician Winter 2015
Member, Miami Datafest Committee Fall 2015 - Present

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

- Miami EHWP - 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 Fall 2015 - Spring 2016
Member, ISU Graphics Working Group Fall 2009 - Summer 2015
Coordinator, ISU Graphics Working Group Spring 2014
Advisor, Midwest Undergraduate Data Analytics Comp. Spring 2013 and 2014
Attendee, Collaborative Undergraduate Research Workshop Fall 2014
Treasurer, STAT-ers Graduate Student Club Fall 2012 - Summer 2013
Consultant, ISU Survey and Behavioral Research Services Fall 2011 - Spring 2012
Online Homework Assistant, Stat 101 at ISU Fall 2010 - Summer 2011
Associate Researcher, UMM Trucking Safety Project Summer 2010
Lab Instructor, Stat 101 at ISU Fall 2009 - Spring 2010