

# Karsten Tait Maurer

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## CONTACT INFORMATION

Department of Statistics  
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## EDUCATION

Iowa State University, Ames IA  
Ph.D., Statistics, August 2015

Iowa State University, Ames IA  
M.S., Statistics, December 2011

University of Minnesota Morris, Morris MN  
B.A., Statistics and History, May 2009  
Minor in Mathematics, Graduated with Distinction

## HONORS AND AWARDS

Department of Statistics Award for Undergraduate Mentoring	Fall 2013 & 2014
2 <sup>nd</sup> Place in the 2013 ASA Data Expo	Summer 2013
Iowa State Department of 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

## TEACHING EXPERIENCE

<i>Course Instructor</i>	Fall 2015 - Present
Miami University, Oxford OH	
Statistics 404 / 504, Data Visualization	
<ul style="list-style-type: none"><li>• Instruct a mix of senior undergraduate and graduate students</li><li>• Topics include: R programming, graphical design, perceptual psychology, interactive displays and client consultation</li><li>• Prepare and grade the lecture materials, exercises and projects</li></ul>	
<i>Course Instructor</i>	Fall 2014 - Summer 2015
Iowa State University, Ames IA	
Statistics 305, Engineering Statistics	
<ul style="list-style-type: none"><li>• Instruct sections of 60 engineering students</li><li>• Topics include: experimental design, multiple linear regression, probability distributions, statistical inference and ANOVA</li><li>• Prepare lecture materials, homework and exams</li></ul>	
<i>Course Instructor</i>	Fall 2012 - Summer 2014
Iowa State University, Ames IA	
Statistics 104, Introduction to Statistics	
<ul style="list-style-type: none"><li>• Conducted lecture and lab for sections of 60 students</li><li>• Prepare lecture materials, lab materials, homework, course projects and exams</li></ul>	

*Workshop Presenter*

Summer 2012 - Fall 2014

Iowa State University, Ames IA

“A Week of R” Workshops

- Presenter for week long workshop on basic and advanced R programming skills
- Part of the team that developed and updated workshop materials
- Conducted the full workshop series seven times

*Lab Instructor*

Fall 2009 - Spring 2010

Iowa State University, Ames IA

Statistics 101, Principles of Statistics

- Instructed lab sections of Stat 101
- Graded lab and homework for lab sections

**PUBLICATION** Anderson J., Burks S., Carpenter J., Goette L., **Maurer K.**, Nosenzo D., Potter R., Rocha K., Rustichini A., (2010) *Self Selection Does Not Increase Other-Regarding Preferences Among Adult Laboratory Subjects, But Student Subjects May Be More Self-Regarding than Adults* (IZA Discussion Paper No. 5389)

**ACCEPTED  
PENDING  
MINOR  
REVISION** **Maurer K.**, Osthus D., Loy A., *A Tale of Four Cities: Exploring the Soul of State College, Detroit, Millidgeville and Biloxi* (Accepted pending revision by COST on 12/19/14)

**Maurer K.**, Lock D., *Comparison of Learning Outcomes for Randomization-Based and Traditional Inference Curricula in a Designed Educational Experiment* (Accepted pending revision by COST on TISE on 11/17/14)

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

**Maurer K.**, *A Shiny New Opportunity for Students to Randomly Sample from Big Data Sources*

**PRESENTATION** “Comparison of Learning Outcomes from Traditional and Randomization-Based Inference Curricula in a Designed Experiment” August 2014

Joint Statistical Meetings, Boston MA

- Topic Contributed Presentation of study results

“A Shiny New Opportunity for Big Data in Statistics Education” July 2014

International Conference on Teaching Statistics, Flagstaff AZ

- Introduced and demonstrated the Shiny Database Sampler tool
- Discussed classroom applications and experiences

“Locating the Heart of the Community” August 2013

Joint Statistical Meetings, Montreal QC

- Awarded 2<sup>nd</sup> Place in the 2013 ASA Data Expo Poster Competition
- Teammates: Dave Osthus and Adam Loy

*“The RecMiler Site: An R Based Online Widget for Interactive Fitness Logs”* October 2011  
Iowa State University, Ames IA

- Presentation of master’s thesis to ISU graphics working group
- Followed by successful defense before Program of Study committee

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

- Topic Contributed Presentation on master’s thesis research

## OTHER EXPERIENCE

*Midwest Undergraduate Data Analytics Competition Group Advisor* Spring 2013 and 2014  
Winona State University, Winona MN

- Advised Iowa State student groups prior to and during MUDAC
- Group of advisees earned 2nd place during MUDAC 2014

*Statistical Consultant* Fall 2011 - Spring 2012  
Iowa State University, Ames IA  
Survey and Behavioral Research Services (SBRS)

- Provided support for surveys affiliated with SBRS

*Online Homework Assistant* Fall 2010 - Summer 2011  
Iowa State University, Ames IA

- Developed online homework problems for statistics courses

*Associate Graduate Student Researcher* Summer 2010  
University of Minnesota Morris, Morris MN  
Truckers and Turnover Project, Research group lead by Dr. Burks and Dr. Anderson

- Cleaned and analyzed data associated with project goals
- Helped undergraduate research assistants with coding and statistical issues

## EXTRA- CURRICULAR ACTIVITIES

*Member, ISU Graphics Working Group* Fall 2009 - Present  
*Attendee, Project LEAR/N workshop on teaching methods* Summer 2014  
*Coordinator, ISU Graphics Working Group* Spring 2014  
*Attendee, Collaborative Undergraduate Research Workshop* Fall 2014  
*Attendee, PREP workshop on randomization-based inference* Summer 2013  
*Member, Des Moines Summer Ultimate Frisbee League* Summer 2011 - 2013  
*Treasurer, STAT-ers Graduate Student Club* Fall 2012 - Summer 2013  
*Community Service Committee Member, STAT-ers Club* Fall 2010 - Fall 2012  
*President, Frisbee for Fun Club* Fall 2010 - Fall 2012