

Karsten Tait Maurer

CONTACT INFORMATION

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

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 2nd 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