

Karsten Tait Maurer

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EDUCATION	Ph.D., Statistics, 2015 Iowa State University	M.S., Statistics, 2011 Iowa State University	B.A., Statistics & History, 2009 University of Minnesota Morris
EXPERIENCE	<i>Assistant Professor of Statistics</i> at Miami University (Oxford OH) 2015 - Present <ul style="list-style-type: none"><i>Instructor</i> – Teaching/developing courses in data visualization, machine learning, statistical programming, statistical computing, and design of experiments<i>Advisor</i> – Directed 6 undergraduate and 10 graduate research projects. Also mentor team for client projects in Center for Analytics and Data Science.<i>Researcher</i> – 11 publications, 10 international conference presentations See kmaurer.github.io/CV for publication, presentation and project details <i>Summer Research Fellow</i> at the Air Force Research Lab (Rome NY) 2016 & 2018 <ul style="list-style-type: none"><i>Researcher</i> – Developing machine learning algorithms for weighted ensemble classification and active learning for detecting classifier confidence deficiencies.		
RELEVANT SKILLSETS	<i>Statistical Thinking</i> – Formal education provides a strong foundation and rigorous statistical lens through which data problems are approached. <i>Programming</i> – 11 years of heavy professional programming in R. Deep understanding of base R, data structures, functional programming, debugging, profiling, and R package development and maintainance. Extensive experience with common R packages: <code>dplyr</code> , <code>tidyr</code> , <code>ggplot2</code> , <code>caret</code> , <code>plotly</code> , <code>shiny</code> , <code>RMySQL</code> , etc. Additional, but less intensive, programming experience in SAS, Python, Stata and SPSS. <i>Machine Learning</i> – Published and ongoing research developing machine learning algorithms. Professor of a machine learning course for senior undergraduates and masters students, covering broad range of supervised and unsupervised learning methods. <i>Data Visualization</i> – Efficient and skilled with designing visualizations in R to support a data-centric narrative. Taught and developed curriculum for a data visualization course in R, and currently extending research on lineup plots for visual inference. <i>SQL</i> – Construction of <code>shiny</code> web app as a teaching tool for students to take random samples from large SQL databases. Additionally taught standard SQL queries in through PROC SQL in SAS-based programming course. <i>Technical and Non-Technical Communication</i> – Faculty career has engrained skills for communicating challenging ideas to diverse audiences: students, data experts, administrators, and collaborators outside of data science. <i>Collaborative</i> – Reputation as an applied statistician with strong data science skills and a broad curiosity for problem-solving has opened opportunity for contribution to many collaborative, inter-disciplinary research projects.		
HONORS & AWARDS	1 st Place Award for Short Paper on Machine Learning at ICMLA 2019 2019 Mentor to student teams winning 2 nd & 3 rd Place ASA Data Expo 2019 Armstrong Endowed Professorship – collaborative grant in interactive media 2019 Air Force Research Lab [\$47000 in Grants] – Research Fellowships 2016 & 2018 2 nd Place ASA Data Expo - Teammates: Adam Loy, Dave Osthus 2013		