

ZACHARY KELLER

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EDUCATION

University of Michigan

M.S., Applied Statistics, GPA: 3.92

Ann Arbor, MI
September 2015 – May 2017

University of California at Berkeley

B.A., Cognitive Science, GPA: 3.54
Minor, Education

Berkeley, CA
September 2007 – June 2011

EXPERIENCE

University of Michigan

Graduate Student Mentor & Instructor

Ann Arbor, MI
September 2015 – May 2017

- Lead computer lab sessions and discussion for Stats 250, Introduction to Statistics and Data Analysis
- Created interactive web applications using Shiny, a package for R, to explore class topics
- Redesigned class website and streamlined student access to resources

Graduate Student Researcher

July 2016 - January 2017

- Modeled risk of re-offense for traffic violators in Michigan to be used in an online judicial aid system
- Cleaned, manipulated, and combined large datasets of traffic violation data using Pandas package and Regular Expressions module in Python
- Collaborated with package contributors to debug and improve the StatsModels Python package
- Built business case for implementation of results and worked with lawyers and project managers during delivery

CEB

Analyst

San Francisco, CA
July 2012 – June 2015

- Developed VBA scripts to reformat and compile millions of data points from thousands of different files in preparation for quantitative analyses, automated client/internal partner e-mail outreach, and developed excel tools to improve client process efficiency
- Managed vendor survey operations designed surveys, summarized result statistics, and implemented quality control on research surveys for samples of over 10,000 respondents
- Co-managed and developed a succession management and high-performance employee management product that generated \$1M + revenue in 2014
- Partnered with our quantitative research team to automate reports distributed to over 600 organizations (VBA)

PROJECTS

- An R Package for Reduced Rank Ridge Regression - An implementation of the Reduced Rank Ridge Regression method for multivariate linear regression, proposed in Mukherjee and Zhu(2011)
- An Analysis of Crime in San Francisco - Exploration and Classification of San Francisco crime data using Random Forests, Adaboost, and K-nearest neighbors techniques

SKILLS

Primary: R, Python, Microsoft Excel, VBA

Secondary: SQL, C++, Unix, CSS, HTML, Verint EFM