Elizabeth Sander

Experience

Civis Analytics, Chicago, IL

Tech Lead, Data Science   January 2020 – Present
Lead Data Scientist   September 2019 – January 2020

- Manage a cross-functional team of data scientists and engineers
- Develop and execute on roadmap for survey products
- Support survey code responsible for running and analyzing 2 million survey completes per year
- Develop methodology to automate survey orchestration and analysis, including quotas, weighting, and modeling bad survey-takers

Senior Data Scientist   October 2018 – September 2019
Data Scientist   July 2017 – October 2018
Data Science Research & Development Intern   Summer 2016

- Write and maintain R and Python libraries to automate data science workflows
- Research and develop methodologies to solve client problems, such as segmentation, customer acquisition, persuasion, and advertising budget optimization
- Work in cross-functional teams with engineers to build data-driven web services
- Product scoping and user research for modeling products
- Develop novel methodology for human-in-the-loop segmentation, patent pending

DataKind, Chicago, IL

Volunteer Data Expert   November 2018 – March 2019

- Worked in small team to provide *pro bono* data science services to green energy advocacy organization

University of Chicago, Chicago, IL

Graduate Student   2012 – 2017

- Implemented and tuned optimization algorithms (genetic algorithms, Metropolis-coupled MCMC) in C
- Simulated large dynamical systems in R
- Used Dynamic Bayesian Networks, likelihood models to study ecological networks
- Teaching assistant for scientific computing course

Skills

Languages: Python (PyData stack, SQLalchemy, Flask), R (ggplot, tidyverse, igraph), SQL (Redshift, Postgres, sqlite), C, bash, MATLAB/Octave, Go
Tools: Git, Docker, Qualtrics, AWS, SVN, Emacs, LaTeX

Education

Ph.D., Ecology and Evolution, University of Chicago   May 2017
NSF Graduate Research Fellow, 4.0 GPA
B.A. in Mathematics with Honors, University of Vermont   May 2012
Summa cum laude, Honors College Scholar, 4.0 GPA