

Elizabeth Sander

Education	Ph.D., Ecology and Evolution , University of Chicago NSF Graduate Research Fellow, 4.0 GPA May 2017
	B.A. in Mathematics with Honors, University of Vermont <i>Summa cum laude</i> , Honors College Scholar, 4.0 GPA May 2012
Experience	Civis Analytics, Chicago, IL <i>Lead Data Scientist</i> September 2019 – Present <ul style="list-style-type: none">• Manage a team of 3 data scientists• Develop and execute on roadmap for survey products• Support survey code responsible for running and analyzing 2 million survey completes per year
	<i>Senior Data Scientist</i> October 2018 – September 2019
	<i>Data Scientist</i> July 2017 – October 2018
	<i>Data Science Research & Development Intern</i> Summer 2016 <ul style="list-style-type: none">• 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
	DataKind, Chicago, IL <i>Volunteer Data Expert</i> November 2018 – March 2019 <ul style="list-style-type: none">• Worked in small team to provide <i>pro bono</i> data science services to green energy advocacy organization• Converted legacy STATA ETL code to user-friendly Python notebook• Advised on experimental design and statistical methodology to measure value of advocacy work
University of Chicago, Chicago, IL <i>Graduate Student</i> 2012 – 2017 <ul style="list-style-type: none">• 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 (PyDdata stack, SQLAlchemy, Flask), R (ggplot, tidyverse, igraph), SQL (Redshift, Postgres, sqlite), C, bash, MATLAB/Octave, Go Tools: Git, Docker, Qualtrics, AWS, SVN, Emacs, \LaTeX