Mark Beers

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Skills: Bayesian Statistics, Regression, Machine Learning, Calculus, Linear Algebra, Probability, Partial Differential Equations, Statistical Physics, Random Forests, SVMs, Time Series Analysis

Languages: R, Python, Matlab, SQL, LaTeX

Other Computer Skills: Solidworks, Microsoft Office

Education

Statistical Sciences (*Master of Science*)
University of California, Santa Cruz
GPA: 3.66
August 2019

Statistics (*Bachelor of Arts*), Applied Mathematics (*Bachelor of Science*)
University of California, Berkeley
GPA: 3.23
May 2017

Experience

Teaching Assistant, UCSC, 2017-2019

I lead weekly discussion sections, hold review sessions before exams, hold weekly office hours and grade exams and homework as needed. I've fulfilled this role for a couple courses. Namely, introductory calculus and introductory statistics.

Intern, Renewable and Appropriate Energy Laboratory, Fall 2016 - Spring 2017
I assisted in the application of the SWITCH model to Costa Rica. The SWITCH model was developed to help identify the optimal set of power plants to add to the electricity grid in a certain geographic area. Specifically, I wrote Python scripts to acquire, clean and upload data to an SQL database referenced by the SWITCH model. I also performed data visualization and analysis in R.

Intern, Astro Aerospace, Summer 2016, Summer 2017

I wrote Python and Matlab scripts involved with analyzing the RF performance of antennas, developed a tutorial for common operations in TICRA's reflector analysis program, GRASP and generally assisted in the mechanical design and analysis of antennas.

Professional Interests
Time Series Analysis, Public Policy Statistics, Data Journalism, Explainable AI