

Education

University of California, Berkeley - Bachelors of science (2013)

Majors: Statistics; Environmental Economics & Policy

GPA: 3.8

SATs: 2270 (760 math, 760 reading, 750 writing)

Jobs & Experience

Premise Data Corporation

Jan 2013-Present

Data Scientist - Premise pays workers around the world to gather on-the-ground price information. I've been lucky enough to take lead on many exciting projects. I:

- created modified clustering algorithms to develop a 'Premise Places' database of markets around the world
- helped design our timeseries aggregation techniques; wrote programs to create the indices
- wrote programs to detect changepoints, interesting trends, and bimodality in our data
- wrote programs to detect and flag outliers in our data
- wrote programs to monitor worker data quality
- wrote a system to enable the creation and upkeep of product hierarchies (thousands of individually weighted nodes)
- created four R packages for employee use (utils, timeseries, hierarchies, and data access)

The Berkeley Roundtable on the International Economy

July 2011-May 2013

Research Assistant - I worked with a graduate student (Mark Huberty) on a project that broadcasted live predictions for congressional elections from a prediction algorithm which took tweets as input. I cleaned up and improved the project's code, as well as created and visualized summary data.

Previously, I worked with the same graduate student to create an R package (*leghist*), which parsed versions of legislative bills and output representations of how paragraphs had been changed/amended/deleted. I wrote the visualization portion of the package, though I was involved in all parts of production.

Before these projects, I researched and presented findings about India's present and future green-energy economy for a book.

Acumen LLC

May 2012-August 2012

Data Intern - Working with Acumen's Department of Justice team, I wrote SAS programs to organize, analyze, and summarize data. I used R to visualize and detect fraud in medical data through the creation of specialized graphing functions, including one to quantify and visualize the strength and type of professional relationships amongst thousands of doctors by using force-directed graphing algorithms. I also created summary workbooks for Department of Justice lawyers, as well as designed a new template for future workbooks.

UC Berkeley Professor Sara Boettiger

May 2010-August 2010

Research Assistant - I conducted research on how liability affects international technology transfer to developing nations, particularly transfers involving public-private partnerships.

Specialties:

- data visualization, bayesian statistics, time series, machine learning
- R, javascript

Foreign Languages: Spanish

Website: *hillarysanders.com*