Mark A. Beers
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Education

University of California, Santa Cruz
Masters: Statistical Sciences
GPA: 3.69

University of California, Berkeley
Double Major: Applied Mathematics, Statistics
GPA: 3.23

Subjects studied: Regression, Calculus, Linear Algebra, Probability, Partial Differential Equations, Statistical Physics, Random Forests, SVMs, Neural Networks, Time Series

Experience

Teaching Assistant, UCSC, 2017-2018
- Classes I have assisted with:
  - Math 19A: Calculus for Science, Engineering and Mathematics
  - AMS 5: Introductory Statistics
- Responsibilities:
  - Lead discussion sections, lead review sessions before exams, hold weekly office hours, grade exams and homework as needed

Intern, Renewable and Appropriate Energy Laboratory, Fall 2016 - Spring 2017
- 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.
- Responsibilities:
  - Wrote Python scripts to acquire, clean and upload data to SQL database referenced by the SWITCH model
  - Data visualization and analysis in R

Intern, Astro Aerospace, Summer 2016, Summer 2017
- Wrote Python scripts involved with analyzing the RF performance of antennas
- Developed tutorial for common operations in TICRA's reflector analysis program, GRASP

Intern, UCSB Physics Department, Dr. Philip Lubin Astrophysics Laboratory, 2011 - 2012
- Created Solidworks drawings to support satellite and high altitude balloon research

FIRST Robotics Team 1717, 2011 - 2012
- Participated in the design and construction of an award-winning robot

Peer Tutor, Dos Pueblos High School Academy students, 2011 - 2012
- Tutored English Students

Computer Skills
- Advanced in Python and R. Proficient in SAS
- Base SAS Certified
- Solidworks
- Microsoft Office

Achievements
- State Cup Soccer Champion, 2009
- National Honor Society and California Scholarship Federation: 2009, 2010, 2011, and 2012
- National Merit Commended Student, 2011

Professional Interests
- Public Policy Statistics
- Biostatistics/Epidemiology
- Data Journalism