

# Margaret Sy

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## Education

### **B.A. COMPUTER SCIENCE | MAY 2015 | UC BERKELEY**

- Current Coursework: Machine Learning, Compilers, Information Technology - Economics, Strategy, and Policy
- Relevant Coursework: Data Science, Operating Systems, Artificial Intelligence, Behavioral Economics, and more

## Work & Experience

### **TUTOR | COMPUTER SCIENCE SELF-PACED CENTER | FALL 2014 - PRESENT**

- Tutor and grade assignments, quizzes, and exams of students taking self-paced Python, Java, and Data Structures Courses.

### **RESEARCH ASSISTANT | LANGUAGE AND COGNITION LAB | SUMMER 2014**

- Quantitatively examine semantic change within semantic fields using the Google N-Grams dataset.
- Calculate semantic distance between words and magnitude of change across time based on frequency of co-occurring words in bi-grams.

### **INTERN | TECHNOLOGY AND INFRASTRUCTURE FOR EMERGING REGIONS | SUMMER 2013**

- Conducted exploratory analysis of Kenya's electrical grid using unstructured text data from Twitter.
- Scraped national power company's Twitter customer service line using API, classified tweets containing outage information with a Naïve Bayes classifier, parsed and mapped locations and times of tweets.

## Technical Skills

- Languages: Python, Java, C, HTML, CSS, LaTeX.
- Comfortable working in UNIX, OSX, and Windows environments.
- Software & Technologies: Git, Python data science stack (Pandas, Scipy/Numpy, scikit-learn, Apache Spark), MS Office Suite.

## Other Projects & Activities

### **CAL FENCING CLUB | SECRETARY & WEBMASTER**

- Completely redesigned team website (fencing.berkeley.edu) using Twitter Bootstrap to make it responsive and easier to maintain.
- Compete in Northern California Intercollegiate Fencing League tournaments.

### **BERKELEY MATH TOURNAMENT | HEAD OF LOGISTICS**

- Plan and run high school and middle school mathematics tournaments, each host to ~300 students. Organize staff meetings and volunteer schedule, book rooms for events.

### **MAKEUP ARTIST | FREELANCE**

- Specializing in face painting and SFX makeup.