Eli Ben-Michael

1038 Sierra St, Berkeley, CA 94707

(908)-472-6870 | ebenmichael@berkeley.edu | github.com/ebenmichael

EDUCATION

University of California, Berkeley, Berkeley, CA

Expected May 2020

PhD in Statistics

Columbia University, Columbia College, New York, NY

May 2016

Bachelor of Arts, Summa Cum Laude, Computer Science and Statistics

Honors: Phi Beta Kappa, Computer Science Department Award (top Computer Science Major), Dean's List (Fall 2012-Spring 2016)

EXPERIENCE

Knewton, New York, NY

Summer 2016

Data Science Intern

- Generalized Bayesian models to incorporate hierarchical structure
- Scaled learning algorithms with a 10x speedup using Spark
- Analyzed performance, strengths, and weaknesses of models on student data
- Presented and documented models, code, and results

Columbia University Department of Economics, New York, NY

Fall 2014 - Spring 2016

Research Assistant

- Built a natural language processing text analysis application in Python for use by economists
- Extracted text features from corpora using Python, NLTK, and gensim
- Performed econometric and statistical analysis on text data with associated meta data

Center for Discrete Mathematics and Theoretical Computer Science, Piscataway, NJ Research Intern Summer 2014

- Implemented a spectral machine learning algorithm in Python to learn a Hidden Markov Model
- Improved algorithm runtime 100x through utilization of Python's NumPy and SciPy libraries
- Presented results to colleagues and faculty to gain feedback

${\bf Columbia\ University\ Departments\ of\ Mathematics\ and\ Statistics}, \ {\bf New\ York}, \ {\bf NYCOLUMBIA}, \ {\bf NYCOL$

Undergraduate Teaching Assistant

Spring 2014 - Spring 2016

- \bullet Held regular office hours for calculus, linear algebra, and statistics students
- Evaluated assignments and provided feedback to students

EXTRACURRICULAR ACTIVITIES

Columbia Data Science Society, Vice President of Education

Fall 2015 - Spring 2016

- Designed and taught workshops on data science tools such as Python and R
- Ran a committee of six people which organized educational events in data science

Personal Projects (On Github)

- Qlearning: Implementation of deep reinforcement learning algorithms
- brownian: Simulation of Brownian motion and general stochastic differential equations
- memm_tagging: Implementation of a Maximum Entropy Markov Model

SKILLS

Machine Learning, Natural Language Processing, Python, R, Scala, Spark, MATLAB, Java