

# Eli Ben-Michael

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## EDUCATION

**University of California, Berkeley**, Berkeley, CA Expected May 2020  
PhD in Statistics  
**Research Interests:** Causal Inference, Machine Learning

**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

**U.C. Berkeley Department of Statistics**, Berkeley, CA Fall 2017  
*Graduate Student Instructor*

- Lectured recitations and created assignments and assessments for Stat 159/259: Reproducible and Collaborative Data Science; the course focused on reproducible analysis using the Python data science stack and tools such as version control and Makefiles

**Walmart Labs**, Sunnyvale, CA Summer 2017  
*Machine Learning Scientist Intern*

- Designed models of consumer purchase behavior to learn latent representations of products
- Implemented efficient learning algorithms on tens of millions of consumer purchases using Spark
- Assessed resulting representations' ability to reconstruct a human-generated catalog
- Communicated results to various teams across the organization

**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

## 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

## SKILLS

Machine Learning, Statistics, Python, R, Scala, Spark, MATLAB, Java