Eli Ben-Michael

323 Evans Hall, Berkeley, CA 94720

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

EDUCATION

University of California, Berkeley, Berkeley, CA　　　　　　　　　　　Expected May 2020
PhD in Statistics, Advisor: Avi Feller, Research Topic: Causal Inference

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)

RESEARCH

Research Interests:
 Causal Inference, Machine Learning, Econometrics
Working Papers:
 Ben-Michael, E., Feller, A., and Rothstein, J. (2018). The augmented synthetic control method
Contributed Talks:
 UAI 2018 Causal Workshop, 2018 European Winter Meeting of the Econometric Society
Open Source Software:
 augsynth: R implementation of the augmented synthetic control method

EXPERIENCE

U.C. Berkeley Department of Statistics, Berkeley, CA　　　　　　　Fall 2017, Fall 2018
Graduate Student Instructor
- (Fall 2017) Stat 159/259: Reproducible and Collaborative Data Science
- (Fall 2018) Stat 232: Experimental Design

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 with Spark
- Validated the representations' predictive power by reconstructing a human-generated catalog
- Presented results to various teams across the organization for use in their modelling pipelines

Knewton, New York, NY　　　　　　　　　　　　　　　　　　　　　Summer 2016
Data Science Intern
- Generalized Bayesian models of student learning to incorporate hierarchical structure
- Scaled learning algorithms with a 10x speedup using Spark
- Analyzed performance, strengths, and weaknesses of models on student data

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 metadata

SKILLS

Observational Studies, Experimental Design, Quasi-Experimental Methods, Machine Learning, R, Python