Eli Ben-Michael

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

EDUCATION

University of California, Berkeley, Berkeley, CA — Expected 2020
PhD in Statistics, Advisor: Avi Feller

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, Dean's List (Fall 2012-Spring 2016)

RESEARCH

Research Interests:
Causal Inference, Machine Learning, Program Evaluation

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, Society for Research on Educational Effectiveness 2019

Open Source Software:
`augsynth`: `R` implementation of the augmented synthetic control method

EXPERIENCE

Uber, New York, NY — Summer 2019
Data Science Intern

- Built spatiotemporal models for feature extraction to enhance predictions in dispatch decisions
- Utilized factor analysis and auto-encoding neural networks to learn embeddings of ride behavior
- Created procedures to quickly isolate predictive contribution of features in black box models

U.C. Berkeley Department of Statistics, Berkeley, CA — Fall 2017, Fall 2018
Graduate Student Instructor

- (Fall 2018) Stat 232: Experimental Design
- (Fall 2017) Stat 159/259: Reproducible and Collaborative Data Science

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

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

INSTITUTIONAL SERVICE

Co-president of the Statistics Graduate Student Association — Fall 2018 - Spring 2019

SKILLS

R, Python, Machine Learning, Experimental Design, Program Evaluation