

Eli Ben-Michael

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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