

Eli Ben-Michael

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EDUCATION

University of California, Berkeley, Berkeley, CA December 2020
PhD in Statistics, Dissertation Committee: Avi Feller, Peng Ding, Jesse Rothstein, Bin Yu

Columbia University, Columbia College, New York, NY May 2016
Bachelor of Arts, *Summa Cum Laude*, Computer Science and Statistics

ACADEMIC APPOINTMENTS

Harvard University, Cambridge, MA January 2021 - Present
Postdoctoral Fellow, Institute for Quantitative Social Science and Department of Statistics

PUBLISHED ARTICLES

- Ben-Michael, E.**, A. Feller, and J. Rothstein (2021+). Synthetic controls with staggered adoption. *Journal of the Royal Statistical Society, Series B*
(SF ASA Student Travel Award winner, Thomas R. Ten Have Poster Award runner up)
- Ben-Michael, E.**, A. Feller, and J. Rothstein (2021). The augmented synthetic control method. *Journal of the American Statistical Association*
- Ben-Michael, E.**, A. Feller, and E. Stuart (2021). A trial emulation approach for policy evaluations with group-level longitudinal data. *Epidemiology* 32, 533–540
- Elser, H., **E. Ben-Michael**, D. Rehkopf, S. Modrek, E. A. Eisen, and M. R. Cullen (2019). Layoffs and the mental health and safety of remaining workers: a difference-in-differences analysis of the US aluminium industry. *Journal of Epidemiology and Community Health* 73, 1094–1100

PREPRINTS AND WORKING PAPERS

- Ben-Michael, E.**, D. A. Hirshberg, A. Feller, and J. Zubizarrra (2021). The Balancing Act in Causal Inference. arXiv:2110.14831
- Ben-Michael, E.**, D. J. Greiner, K. Imai, and Z. Jiang (2021). Safe Policy Learning through Extrapolation: Application to Pre-trial Risk Assessment. arXiv:2109.11679
- Arbour, D., **E. Ben-Michael**, A. Feller, A. Franks, and S. Raphael (2021). Using Multitask Gaussian Processes to estimate the effect of a targeted effort to remove firearms. arXiv:2110.07006
- Lu, B., **E. Ben-Michael**, A. Feller, and L. Miratrix (2021). Is it who you are or where you are? Accounting for compositional differences in cross-site treatment variation. arXiv:2103.14765
- Ben-Michael, E.**, A. Feller, and S. Raphael (2021). The Effect of a Targeted Effort to Remove Firearms from Prohibited Persons on State Murder Rates
- Soriano, D., **E. Ben-Michael**, P. J. Bickel, A. Feller, and S. D. Pimentel (2021). Interpretable Sensitivity Analysis for Balancing Weights. arXiv:2102.13218
- Ben-Michael, E.**, A. Feller, and E. Hartman (2021). Multilevel calibration weighting for survey data. arXiv:2102.09052
- Ben-Michael, E.**, A. Feller, and J. Rothstein (2020). Variation in impacts of letters of recommendation on college admissions decisions: Approximate balancing weights for treatment effect heterogeneity in observational studies. arXiv:2008.04394
(American Statistical Association Social Statistics Section Student Paper Award winner)
- Keele, L., **E. Ben-Michael**, A. Feller, R. Kelz, and L. Miratrix (2020). Hospital quality risk standardization via approximate balancing weights. arXiv:2007.09056

OPEN SOURCE STATISTICAL SOFTWARE

augsynth: R implementation of the augmented synthetic control method

multical: R package for multilevel calibration weighting

PRESENTATIONS

Safe policy learning through extrapolation

Harvard Applied Statistics Workshop

October 2021

Johns Hopkins Causal Inference Seminar

October 2021

Multilevel calibration weighting for survey data

Annual Meeting of the Society for Political Methodology

July 2021

Asian Political Methodology Meetings

January 2021

BigSurv20

November 2020

Varying impacts of letters of recommendation on college admissions

Joint Statistical Meetings (ASA Social Statistics Section Student Paper Award Winner)

August 2021

RAND Center for Causal Inference Symposium

June 2021

Annual Meeting of the Society for Political Methodology

July 2020

A trial emulation approach for policy evaluations with group-level longitudinal data

Association for Public Policy Analysis & Management Fall Research Conference

November 2020

Synthetic controls with staggered adoption

Johns Hopkins CICADAS Seminar

March 2021

ENAR Spring Meeting

March 2021

Online Causal Inference Seminar

September 2020

Econometric Society World Congress

August 2020

Joint Statistical Meetings (SFASA Student Travel Award winner)

August 2020

Berkeley-Stanford Econometrics Jamboree

November 2019

Atlantic Causal Inference Conference (Thomas R. Ten Have Poster Award runner up)

May 2019

Multi-level balancing weights for multi-site observational studies

Society for Research on Educational Effectiveness

March 2019

The augmented synthetic control method

2018 European Winter Meeting of the Econometric Society

December 2018

Matrix constraints and multi-task learning for covariate balance

7th Causal Inference Workshop at UAI

August 2018

AWARDS AND HONORS

Department fellowship, Department of Statistics, U.C. Berkeley

2018

Two years of funding through RTG grant: Advancing Machine Learning - Causality and Interpretability

Phi Beta Kappa, Columbia University

2016

Computer Science Department Award, Columbia University

2016

Given to the top two graduating seniors each year

TEACHING

U.C. Berkeley Department of Statistics *Graduate Student Instructor*

Stat 232: Experimental Design with Sam Pimentel

Fall 2018

Stat 159/259: Reproducible and Collaborative Data Science with Fernando Perez

Fall 2017

INSTITUTIONAL SERVICE

PhD admissions committee, Department of Statistics, UC Berkeley

Spring 2020

Co-president of the Berkeley Statistics Graduate Student Association

Fall 2018 - Spring 2019

Reviewer for *Journal of the American Statistical Association*, *Econometrica*, *Biometrika*, *Political Analysis*, *Annals of Applied Statistics*, *Statistics in Medicine*, *Statistics and Public Policy*, *Population*

Health Metrics, INFORMS Journal on Data Science, Journal of Educational and Behavioral Statistics, Journal of Causal Inference, and Journal of Applied Econometrics

WORK EXPERIENCE

Uber , New York, NY <i>Data Science Intern</i>	Summer 2019
Walmart Labs , Sunnyvale, CA <i>Machine Learning Scientist Intern</i>	Summer 2017
Knewton , New York, NY <i>Data Science Intern</i>	Summer 2016