

# Eli Ben-Michael

---

(908)-472-6870 | [ebenmichael@fas.harvard.edu](mailto:ebenmichael@fas.harvard.edu) | 1737 Cambridge St, Cambridge MA | [ebenmichael.github.io](https://ebenmichael.github.io)

## EDUCATION

**University of California, Berkeley**, Berkeley, CA December 2020  
PhD in Statistics, Advisors: Avi Feller and Peng Ding

**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

- 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

Multilevel calibration weighting for survey data	
<i>Annual Meeting of the Society for Political Methodology</i>	July 2021
<i>Asian Political Methodology Meetings</i>	January 2021
<i>BigSurv20</i>	November 2020
Varying impacts of letters of recommendation on college admissions	
<i>Joint Statistical Meetings</i> (ASA Social Statistics Section Student Paper Award Winner)	August 2021
<i>RAND Center for Causal Inference Symposium</i>	June 2021
<i>Annual Meeting of the Society for Political Methodology</i>	July 2020
A trial emulation approach for policy evaluations with group-level longitudinal data	
<i>Association for Public Policy Analysis &amp; Management Fall Research Conference</i>	November 2020
Synthetic controls with staggered adoption	
<i>JHU CICADAS Seminar</i>	March 2021
<i>ENAR Spring Meeting</i>	March 2021
<i>Online Causal Inference Seminar</i>	September 2020
<i>Econometric Society World Congress</i>	August 2020
<i>Joint Statistical Meetings</i> (SFASA Student Travel Award winner)	August 2020
<i>Berkeley-Stanford Econometrics Jamboree</i>	November 2019
<i>Atlantic Causal Inference Conference</i> (Thomas R. Ten Have Poster Award runner up)	May 2019
Multi-level balancing weights for multi-site observational studies	
<i>Society for Research on Educational Effectiveness</i>	March 2019
The augmented synthetic control method	
<i>2018 European Winter Meeting of the Econometric Society</i>	December 2018
Matrix constraints and multi-task learning for covariate balance	
<i>7th Causal Inference Workshop at UAI</i>	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 <i>Journal of the American Statistical Association</i> , <i>Econometrica</i> , <i>Biometrika</i> , <i>Political Analysis</i> , <i>Annals of Applied Statistics</i> , <i>Statistics in Medicine</i> , <i>Statistics and Public Policy</i> , <i>Population Health Metrics</i> , <i>INFORMS Journal on Data Science</i> , <i>Journal of Educational and Behavioral Statistics</i> , <i>Journal of Causal Inference</i> , and <i>Journal of Applied Econometrics</i>	

## WORK EXPERIENCE

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

**Knewton**, New York, NY  
*Data Science Intern*

Summer 2016