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

Keele, L., **E. Ben-Michael**, A. Feller, R. Kelz, and L. Miratrix (2022+). Hospital quality risk standardization via approximate balancing weights. *The Annals of Applied Statistics*

Ben-Michael, E., A. Feller, and J. Rothstein (2022). Synthetic controls with staggered adoption. *Journal of the Royal Statistical Society. Series B: Statistical Methodology 84*(2), 351–381
(SF ASA Student Travel Award winner, Thomas R. Ten Have Poster Award runner up)

Haber, N. A., E. Clarke-Deelder, A. Feller, E. R. Smith, J. A. Salomon, B. MacCormack-Gelles, E. M. Stone, C. Bolster-Foucault, J. R. Daw, L. A. Hatfield, C. E. Fry, C. B. Boyer, **E. Ben-Michael**, C. M. Joyce, B. S. Linas, I. Schmid, E. H. Au, S. E. Wieten, B. Jarrett, C. Axfors, V. T. Nguyen, B. A. Griffin, A. Bilinski, and E. A. Stuart (2022). Problems with evidence assessment in COVID-19 health policy impact evaluation: A systematic review of study design and evidence strength. *BMJ Open 12*(1)

Ben-Michael, E., A. Feller, and J. Rothstein (2021). The Augmented Synthetic Control Method. *Journal of the American Statistical Association 116*(536), 1789–1803

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. Zubizarrta (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)

OPEN SOURCE STATISTICAL SOFTWARE

`augsynth`: R implementation of the augmented synthetic control method

`multical`: R package for multilevel calibration weighting

PRESENTATIONS

2022:   London School of Hygiene and Tropical Medicine, Centre for Statistical Methodology

2021

Asian Political Methodology Mettings; ENAR Spring Meeting; Johns Hopkins CICADAS Seminar; RAND Center for Causal Inference Symposium; Annual Meeting of the Society for Political Methodology; Joint Statistical Meetings (ASA Social Statistics Section Student Paper Award Winner); Johns Hopkins Causal Inference Seminar; Harvard Applied Statistics Workshop; Berkeley Machine Learning and Science Forum

2020

Annual Meeting of the Society for Political Methodology; Joint Statistical Meetings (SFASA Student Travel Award winner); Econometric Society World Congress; Online Causal Inference Seminar; Association for Public Policy Analysis & Management Fall Research Conference; BigSurv20

2019

Society for Research on Educational Effectiveness; Atlantic Causal Inference Conference (Thomas R. Ten Have Poster Award runner up); Berkeley-Stanford Econometrics Jamboree

2018

7th Causal Inference Workshop at UAI; European Winter Meeting of the Econometric Society

AWARDS AND HONORS

American Statistical Association Social Statistics Section Student Paper Award	2021
American Statistical Association, San Francisco Bay Area Chapter, Student Travel Award	2020
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 *Annals of Applied Statistics*, *Biometrical Journal*, *Biometrika*, *Econometrica*, *Epidemiology*, *INFORMS Journal on Data Science*, *Journal of the American Statistical Association*, *Journal of*

Applied Econometrics, Journal of Causal Inference, Journal of Educational and Behavioral Statistics, Journal of the Royal Statistical Society, Series B, Journal of the Royal Statistical Society, Series C, Management Science, Political Analysis, Population Health Metrics, Statistics in Medicine, and *Statistics and Public Policy*

WORK EXPERIENCE

Uber, New York, NY   Summer 2019
Data Science Intern

Walmart Labs, Sunnyvale, CA   Summer 2017
Machine Learning Scientist Intern

Knewton, New York, NY   Summer 2016
Data Science Intern