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

Carnegie Mellon University, Pittsburgh, PA — August 2022 -
Heinz College of Information Systems & Public Policy
Department of Statistics & Data Science
Assistant Professor

Harvard University, Cambridge, MA — January 2021 - August 2022
Institute for Quantitative Social Science
Department of Statistics
Postdoctoral Fellow

FORTHCOMING AND PUBLISHED ARTICLES

Ben-Michael, E., A. Feller, and E. Hartman (2023+). Multilevel calibration weighting for survey data

Soriano, D., **E. Ben-Michael**, P. J. Bickel, A. Feller, and S. D. Pimentel (2023+). Interpretable Sensitivity Analysis for Balancing Weights. *Journal of the Royal Statistical Society, Series A: Statistics in Society*

Ben-Michael, E., A. Feller, and J. Rothstein (2023+). Variation in impacts of letters of recommendation on college admissions decisions. *The Annals of Applied Statistics*
(American Statistical Association Social Statistics Section Student Paper Award winner)

Lu, B., **E. Ben-Michael**, A. Feller, and L. Miratrix (2022+). Is it who you are or where you are? Accounting for compositional differences in cross-site treatment variation. *Journal of Educational and Behavioral Statistics*

Ben-Michael, E., D. Arbour, A. Feller, A. Franks, and S. Raphael (2022+). Estimating the effects of a California gun control program with Multitask Gaussian Processes. *The Annals of Applied Statistics*

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., L. Page, and L. Keele (2023). Approximate Balancing Weights for Clustered Observational Study Designs. arXiv:2301.05275

Ben-Michael, E. and L. Keele (2022). Using Balancing Weights to Target the Treatment Effect on the Treated when Overlap is Poor. arXiv:2210.01763

Ben-Michael, E., A. Feller, R. Kelz, and L. Keele (2022). Estimating Racial Disparities in Emergency General Surgery. arXiv:2209.0431

Zhang, Y., **E. Ben-Michael**, and K. Imai (2022). Safe Policy Learning under Regression Discontinuity Designs. arXiv:2208.13323

Ben-Michael, E., K. Imai, and Z. Jiang (2022). Policy Learning with Asymmetric Utilities. arXiv:2206.10479

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

OPEN SOURCE STATISTICAL SOFTWARE

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

`multical`: `R` package for multilevel calibration weighting

PRESENTATIONS

Invited

2023

International Conference on Health Policy Statistics

2022

London School of Hygiene and Tropical Medicine, Centre for Statistical Methodology; Joint Statistical Meetings; Linkedin; National Research Conference on Firearm Injury Prevention; IMS International Conference on Statistics and Data Science; International Conference on Computational and Methodological Statistics; Bank of England

2021

Johns Hopkins CICADAS Seminar; RAND Center for Causal Inference Symposium; Johns Hopkins Causal Inference Seminar; Harvard Applied Statistics Workshop; Berkeley Machine Learning and Science Forum

2020

Online Causal Inference Seminar

Contributed

2022

American Causal Inference Conference

2021

Asian Political Methodology Meetings; ENAR Spring Meeting; Annual Meeting of the Society for Political Methodology; Joint Statistical Meetings (ASA Social Statistics Section Student Paper Award Winner)

2020

Annual Meeting of the Society for Political Methodology; Joint Statistical Meetings (SFASA Student Travel Award winner); Econometric Society World Congress; 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 Causal Inference Conference Travel Award 2022

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*, *Biometrics*, *Biometrika*, *Econometrica*, *Epidemiology*, *INFORMS Journal on Data Science*, *Journal of the American Statistical Association*, *Journal of Applied Econometrics*, *Journal of Causal Inference*, *Journal of Econometrics*, *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*, *Quantitative Economics*, *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