

Reagan Mozer

CONTACT INFORMATION Bentley University
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PROFESSIONAL EXPERIENCE **Bentley University**, Waltham, Massachusetts
Assistant Professor **July 2019 - present**
Department of Mathematical Sciences

Harvard University, Cambridge, Massachusetts
Postdoctoral Research Fellow **May - June 2019**
Department of Statistics, Supervisor: Mark Glickman

EDUCATION **Harvard University**, Cambridge, Massachusetts
Ph.D. in Statistics, May 2019
Thesis title: *New directions for causal inference with complex data in health care, social science, and beyond*
Advisors: Luke Miratrix, Mark Glickman, and Fabrizia Mealli
M.A., Statistics, May 2016
University of Southern California, Los Angeles, California
B.S., Applied and Computational Mathematics, May 2014

GRANTS AND FUNDING Practical Tools for Large-Scale Evaluation of Text Data in Randomized Trials in Education
Institute of Education Sciences (R305D220032)
Role: Co-PI with Luke Miratrix and Shireen Al-Adiemi
Award amount: \$894,352; Award period: 7/1/2022 – 6/30/2025

How Jurors Use Character Evidence: A Randomized Controlled Trial
Bentley University Research Council
Role: Co-PI with Hillel Bavli
Award amount: \$7,500; Award period: 9/1/2022 – 8/31/2023

Evaluating Patient-centered Care: Patient, Provider and Organizational Views
Department of Veterans Affairs PEC 13-001 (Bokhour)
Role: Statistician
Award period: 10/01/2020 – 09/30/2021

Factors and Outcomes Associated with Inappropriate Prescribing of Phosphodiesterase-5-Inhibitors for Pulmonary Hypertension
Department of Veterans Affairs IIR HSR&D 15-115 (Wiener)
Role: Research Associate
Award period: 06/01/2016 – 11/30/2020

HONORS AND AWARDS 2023 Outstanding Scholarly Contribution Award, Bentley University
2021 Miller Prize, Society for Political Methodology
2021 Gregory J. Hall Advisor of the Year Award, Bentley University Honors Program

2019 Pickard Teaching Fellow Award, Harvard University Department of Statistics
2018 Jeanne Humphrey Block Dissertation Award
2018–2019 Pedagogy Fellow in Statistics, Harvard University Derek Bok Center
2015–2019 Certificate of Distinction in Teaching, Harvard University Derek Bok Center

PUBLICATIONS

- Mozer, R., Miratrix, L., Relyea, J. E., and Kim, J. S. (2023). Combining human and automated scoring methods in experimental assessments of writing: A case study tutorial. *Journal of Educational and Behavioral Statistics*
- Mozer, R. and Glickman, M. E. (2023). Bayesian analysis of longitudinal studies with treatment by indication. *Health Services and Outcomes Research Methodology*, 23(4):468–491
- Anderson, E., Dvorin, K., Etingen, B., Barker, A. M., Rai, Z., Herbst, A. N., Mozer, R., Kingston, R. P., and Bokhour, B. G. (2022b). “It Makes You Sit Back and Think Where You Wanna Go”: Veteran experiences in virtual whole health peer-led groups. *Health Expectations*, 25(5):2548–2556
- Rahman, N., Mozer, R., McHugh, R. K., Rockett, I. R., Chow, C. M., and Vaughan, G. (2022). Using natural language processing to improve suicide classification requires consideration of race. *Suicide and Life-Threatening Behavior*, 52(4):782–791
- Anderson, E., Dvorin, K., Barker, A., Herbst, A., Bowen, M., Etingen, B., Mozer, R., Kingston, R., and Bokhour, B. (2022a). Lessons learned from vhas rapid implementation of virtual whole health peer-led groups during the covid-19 pandemic: Staff perspectives. *Global Advances in Health and Medicine*, 11:1–12
- Mozer, R., Miratrix, L., Kaufman, A. R., and Anastasopoulos, L. J. (2020a). Matching with text data: An experimental evaluation of methods for matching documents and of measuring match quality. *Political Analysis*, 28(4):445–468
- Mozer, R., Rubin, D. B., and Zubizarreta, J. R. (2020b). Statistical inference for causal effects in clinical psychology: Fundamental concepts and analytical approaches. In Wright, A. C. and Halquist, M. N., editors, *The Cambridge Handbook of Research Methods in Clinical Psychology*, chapter 31, pages 415–425. Cambridge University Press, Cambridge, UK
- Mozer, R. (2019). Replication Data for: Matching with Text Data: An Experimental Evaluation of Methods for Matching Documents and of Measuring Match Quality
- Bavli, H. J. and Mozer, R. (2019). The effects of comparable-case guidance on awards for pain and suffering and punitive damages: Evidence from a randomized controlled trial. *Yale Law and Policy Review*, 37(405)
- Kessels, R., Mozer, R., and Bloemers, J. (2019). Methods for assessing and controlling placebo effects. *Statistical Methods in Medical Research*, 28(4):1141–1156
- Mozer, R., Kessels, R., and Rubin, D. B. (2017). Disentangling treatment and placebo effects in randomized experiments using principal stratificationan introduction. In *The Annual Meeting of the Psychometric Society*, pages 11–23. Springer

- WORKING PAPERS AND PAPERS UNDER REVIEW
- Mozer, R., Kaufman, A. R., Celi, L. A., and Miratrix, L. Leveraging text data for causal inference using electronic health records. *Statistics in Medicine (Under review)*
- Mozer, R. and Miratrix, L. Decreasing the human coding burden in randomized trials with text-based outcomes via model-assisted impact analysis. *arXiv preprint arXiv:2309.13666*
- Mozer, R., Branson, Z., Dwight, E., Kou, Z., and Miratrix, L. Assessing gender disparities in textual response on Reddit.com. *Working paper.*
- OTHER PUBLICATIONS
- Mozer, R., and Rubin, D.B. Evaluating PML Risk for Multiple Sclerosis Patients Receiving Tysabri. *Technical report.*
- Osuna, B.L, and Rose, R. (2013). Applying Quantitative Content Analysis and Factor Scoring: A Comparison of Pre- and Post-9/11 Song Lyrics. Proceedings of the Joint Statistical Meetings, Statistical Computing Section.
- TEACHING EXPERIENCE
- Courses taught at Bentley University (as Instructor)*
- MA 252: Regression Analysis
 - MA 255: Design of Experiments
 - MA 706: Design of Experiments for Business (Graduate-level)
- Courses taught at Harvard University (as a Teaching Fellow)*
- Stat 98: Junior Tutorial
 - Stat 109: Introduction to Statistical Modeling
 - Stat 139: Statistical Sleuthing through Linear Models (*Head TF*)
 - Stat 186: Statistical Methods for Evaluating Causal Effects
 - Stat 211: Statistical Inference (Graduate level)
 - Stat 286: Causal Inference and Program Evaluation (Graduate level)
 - Stat 303: The Art and Practice of Teaching Statistics (Graduate level)
- SELECTED TALKS
- Association for Public Policy Analysis & Management (APPAM) Conference – March 2022
 - Society for Research on Educational Effectiveness (SREE) 2021 (Virtual)– September 2021
 - International Conference on Health Policy Statistics (ICHPS). San Diego, CA – January 2020
 - New England Statistics Society (NESS) Data Science Day. Waltham, MA – November 2019
 - Harvard Data Science Conference. Cambridge, MA – October 2018
 - New Directions for Analyzing Text as Data. Seattle, WA – October 2018
 - Preconference on Politics and Computational Social Science (PACSS). Boston, MA – August 2018
 - Annual Meeting of the Society for Political Methodology (PolMeth). Salt Lake City, UT – July 2018
 - Joint Statistical Meetings (JSM). Baltimore, MD – July 2017

OTHER ACADEMIC ACTIVITIES Referee for *BMJ Open*, *Journal of Data Science*, *Journal of Educational and Behavioral Statistics*, *Biostatistics*, the *Journal of the Royal Statistical Society (Series B)* and *Stat*

Organizer of Causal inference in medicine: a toolkit for clinicians, a workshop hosted by the Laboratory of Computational Physiology at MIT Critical Data, November 2018

Selected poster presentations: Atlantic Causal Inference Conference 2018, 2017, European Causal Inference, Meeting 2018, NIPS 2017, Promoting Statistical Insight 2016, JSM 2016

Professional memberships: American Statistical Association, Association for Computational Linguistics, New England Statistical Society, The Society for Political Methodology, Royal Statistical Society

CONSULTING EXPERIENCE Pacific Clinics Asian Pacific Family Center, Rosemead, CA
Carnegie Mellon Hoover Institution, Pittsburgh, PA
New Hampshire Public Defender's Office, Concord, NH
Biogen, Cambridge, MA
Emotional Brain, B.V., Almere, The Netherlands

AFFILIATIONS Center for Integration of Science and Industry, Bentley University
Health Thought Leadership Network, Bentley University
Institute for Quantitative Social Science, Harvard University
Miratrix C.A.R.E.S Lab, Harvard University

SOFTWARE AND COMPUTING `textmatch`: an R package for matching text documents and performing quality and balance assessments in studies where covariates and/or outcomes are defined by text (doi: 10.5281/zenodo.2626730)

Languages: R, Python, C/C++, Matlab, Java, SQL