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## JASON POULOS

postdoctoral training	Postdoctoral Fellow in Machine Learning, Brigham and Women's Hospital and Har- vard Medical School, 2023 – 2024
	Postdoctoral Fellow in Data Science, Department of Health Care Policy, Harvard Med- ical School, 2021 – 2023
	Postdoctoral Associate, Causal Inference and Deep Learning Programs, Statistical and Applied Mathematical Sciences Institute, 2019 – 2021
education	Ph.D., Political Science with a Designated Emphasis in Computational Science and Engineering, University of California, Berkeley, 2019
	NSF Graduate Research Fellowship
	M.A., Political Science, University of California, Berkeley, 2014
	B.A., Economics (Phi Beta Kappa), University of Massachusetts, Amherst
selected articles	Denis Agniel, Sharon-Lise Normand, John Newcomer, Katya Zelevinsky, <b>Jason Pou-</b> <b>los</b> , Jeannette Tsuei, and Marcela Horvitz-Lennon (2024). "Revisiting Diabetes Risk of Olanzapine versus Aripiprazole for Serious Mental Illness Care." <i>BJPsych</i> <i>Open</i> , 10(5): e144.
	Jason Poulos (2024). "State-Building through Public Land Disposal? An Application of Matrix Completion for Counterfactual Prediction." <i>Statistics and Public Policy</i> , 11(1).
	Jason Poulos, Marcela Horvitz-Lennon, Katya Zelevinsky, Thomas Huijskens, Pooja Tyagi, Jiaju Yan, Jordi Diaz, Tudor Cristea-Platon, and Sharon-Lise Normand (2024). "Targeted Learning in Observational Studies with Multi-Valued Treat- ments: An Evaluation of Antipsychotic Drug Treatment Safety." <i>Statistics in Medicine</i> , 43(8):1489-1508.
	Jason Poulos, Sharon-Lise Normand, Katya Zelevinsky, John Newcomer, Denis Ag- niel, Haley Abing, and Marcela Horvitz-Lennon (2023). "Antipsychotics and the Risk of Diabetes and Death among Adults with Serious Mental Illnesses." <i>Psycho- logical Medicine</i> , 53(16):7677-7684.
	David Rios Insua, Roi Naveiro, Víctor Gallego, and Jason Poulos (2023). "Adversar- ial Machine Learning: Bayesian Perspectives." <i>Journal of the American Statistical</i> <i>Association</i> , 115(543): 2195-2206.

- Zhenhua Wang, Olanrewaju Akande, Jason Poulos, and Fan Li (2022). "Are Deep Learning Models Superior for Missing Data Imputation in Surveys? Evidence from an Empirical Comparison." *Survey Methodology*, 48(2): 375-399.
- Jason Poulos and Shuxi Zeng (2021). "RNN-Based Counterfactual Prediction, with an Application to Homestead Policy and Public Schooling." *Journal of the Royal Statistical Society, Series C*, 70(4): 1124-1139.
- Jason Poulos and Rafael Valle (2021). "Character-Based Handwritten Text Transcription with Attention Networks." *Neural Computing & Applications*, 33(16): 10563-10573.
- Kellie Ottoboni and Jason Poulos (2020). "Estimating Population Average Treatment Effects from Experiments with Noncompliance." *Journal of Causal Inference*, 8(1): 108-130.
- Jason Poulos and Rafael Valle (2018). "Missing Data Imputation for Supervised Learning." Applied Artificial Intelligence 32(2): 186-196.

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Full list of articles on Google Scholar.

professional <u>Book Reviewer:</u> Chapman & Hall/CRC Statistics; Springer Mathematics

- Conference Reviewer: Artificial Intelligence and Statistics (AISTATS; 2023 2025); International Conference on Machine Learning (ICML; 2025); International Conference on Learning Representations (ICLR; 2025); Machine Learning for Health (ML4H; 2021 – 2024); Neural Information Processing Systems (NeurIPS; 2024); NeurIPS Ethics Review (2023, 2024); NeurIPS Workshop on Machine Learning and the Physical Sciences (2019, 2020); Uncertainty in Artificial Intelligence (UAI; 2021, 2024, 2025)
  - Journal Reviewer: Applied Artificial Intelligence; Applied Stochastic Models in Business and Industry; European Journal of Operational Research; Frontiers in Big Data – Data Mining and Management; GigaScience; Journal of Applied Econometrics; Journal of the Royal Statistical Society: Series C; PeerJ Computer Science; PLOS ONE; PLOS Neglected Tropical Diseases; Statistical Methods & Applications; Statistical Papers; Statistics and Public Policy
- invited talks Department of Engineering & Public Policy, Carnegie Mellon University, March 2023 Dalla Lana School of Public Health, University of Toronto, February 2023 Brandeis International Business School, Brandeis University, December 2022

	Modern Techniques in Survey Sampling, Canadian Statistical Sciences Institute, Uni- versity of Ottawa, July 2022
	Department of Mathematics, Université du Québec à Montréal, February 2022
	Statistical Methods for Computational Advertising, Banff International Research Sta- tion, October 2021
conference talks	Causal Data Science Meeting (CDSM; 2021, 2022)
	RAND Center for Causal Inference Symposium (2022)
	Joint Statistical Meetings (JSM; 2021, 2022)
	Political Institutions and Political Economy Collaborative, Bedrosian Center, Univer- sity of Southern California (2021, 2022)
	Society for Political Methodology (PolMeth; 2020, 2021; Europe, 2021, 2022; Asia, 2022)
	Eastern North American Region International Biometric Society (ENAR; 2022)
	Online Causal Inference Seminar (OCIS; 2021 <sup>†</sup> )
	Big Data Meets Survey Science (BigSurv20; 2020)
	Data Science, Statistics & Visualization (DSSV; 2020)
	American Political Science Association (APSA; 2014 <sup>*</sup> , 2015, 2018 <sup>‡</sup> )
	Midwest Political Science Association (MPSA; 2018)
	*poster; <sup>†</sup> discussant; <sup>‡</sup> paper & discussant
teaching & mentoring	<u>Graduate Student Instructor:</u> Department of Political Science, University of Califor- nia, Berkeley: Intro. to American Politics (undergrad), spring 2017 and spring 2018; Intro. to Empirical Analysis & Quantitative Methods (undergrad), fall 2018
	<u>Research Mentor:</u> Undergraduate Research Apprentice Program (URAP), University of California, Berkeley, fall 2016 and spring 2017
grants and fellowships	NSF Frontera Startup Allocation: "RNN-Based Counterfactual Prediction on High- Dimensional Longitudinal Health Data" (SES20001), 2020-2021
	NSF XSEDE Startup Allocation: "RNN-Based Counterfactual Time-Series Prediction" (SES180010), 2018-2019, 2020-2021

	Berkeley Empirical Legal Studies Graduate Fellowship, University of California, Berke- ley, School of Law, 2016-2017
	National Science Foundation Graduate Research Fellowship, 2013-2018
other	Research Support Associate, Department of Political Science, MIT, 2011 - 2013
experience	Research Assistant, Department of Economics, Harvard University, 2010 - 2011
	Research Assistant, Harvard Kennedy School, Harvard University, 2009 - 2010
technical	Languages: R; Python; Bash; C/C++; UPC; SQL
skills	Version Control: Git (GitHub); SVN
	Frameworks & Libraries: PyTorch; TensorFlow; Keras; Open MPI
	Operating Systems: Linux (CentOS, Ubuntu)