

Jason Poulos

CONTACT	Department of Health Care Policy Harvard Medical School 180 Longwood Avenue Boston, MA 02115-5821	 poulos@hcp.med.harvard.edu  jasonvpoulos.com  github.com/jvpoulos
PROFESSIONAL APPOINTMENTS	Harvard Medical School , Boston, MA Postdoctoral Fellow in Data Science, Department of Health Care Policy, 2021 – Duke University and SAMSI , Durham, NC Postdoctoral Associate, Department of Statistical Science, 2019 – 2021 Postdoctoral Associate, SAMSI, 2019 – 2021	
EDUCATION	University of California, Berkeley Ph.D., Political Science with a Designated Emphasis in Computational Science and Engineering, 2019 University of Massachusetts, Amherst B.A., Economics, 2008 (Phi Beta Kappa)	
PEER-REVIEWED ARTICLES	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.” Forthcoming, <i>Survey Methodology</i> . Jason Poulos and Shuxi Zeng (2021). “RNN-Based Counterfactual Prediction, with an Application to Homestead Policy and Public Schooling.” <i>Journal of the Royal Statistical Society, Series C</i> , 70(4): 1124-1139. Jason Poulos and Rafael Valle (2021). “Character-Based Handwritten Text Transcription with Attention Networks.” <i>Neural Computing & Applications</i> , 33(16): 10563-10573. Kellie Ottoboni and Jason Poulos (2020). “Estimating Population Average Treatment Effects from Experiments with Noncompliance.” <i>Journal of Causal Inference</i> , 8(1): 108-130. Jason Poulos (2019). “Land Lotteries, Long-term Wealth, and Political Selection.” <i>Public Choice</i> , 178(1): 217-230. Jason Poulos and Rafael Valle (2018). “Missing Data Imputation for Supervised Learning.” <i>Applied Artificial Intelligence</i> 32(2): 186-196.	
EDITOR- REVIEWED ARTICLES	Jason Poulos (2021). “Amnesty Policy and Elite Persistence in the Postbellum South: Evidence from a Regression Discontinuity Design.” Special issue on “Slavery and its Legacies,” <i>Journal of Historical Political Economy</i> , 1(3): 353-375.	

MANUSCRIPTS UNDER REVIEW	“Targeted learning in observational studies with multi-level treatments: An evaluation of antipsychotic drug treatment safety for patients with serious mental illnesses” (with Marcela Horvitz-Lennon, Katya Zelevinsky, Thomas Huijskens, Pooja Tyagi, Jiaju Yan, Jordi Diaz, Tudor Cristea-Platon, and Sharon-Lise Normand). arXiv:2206.15367 .
	“Gender gaps in frontier entrepreneurship? Evidence from 1901 Oklahoma land lottery winners.” arXiv:2206.14922 .
	“Adversarial Machine Learning: Bayesian Perspectives” (with David Rios Insua, Roi Naveiro, and Victor Gallego). arXiv:2003.03546 .
	“State-Building through Public Land Disposal? An Application of Matrix Completion for Counterfactual Prediction.” arXiv:1903.08028 .
	“Retrospective Causal Inference via Matrix Completion, with an Evaluation of the Effect of European Integration on Labour Market Outcomes” (with Andrea Albanese, Fan Li, and Andrea Mercatanti). arXiv:2106.00788 . IZA Discussion Paper No. 14472.
INVITED PRESENTATIONS	Summer School on Modern Techniques in Survey Sampling, University of Ottawa, July 2022
	Political Institutions and Political Economy Collaborative, Bedrosian Center, University of Southern California, April 2021 and May 2022
	Department of Mathematics, Université du Québec à Montréal, February 2022
	Statistical Methods for Computational Advertising, Banff International Research Station, October 2021
CONFERENCE PRESENTATIONS	Joint Statistical Meetings (JSM, 2021, 2022)
	Society for Political Methodology (PolMeth, 2020, 2021; Europe, 2021, 2022; Asia, 2022)
	Eastern North American Region International Biometric Society (ENAR, 2022)
	Causal Data Science Meeting (CDSM, 2021)
	Online Causal Inference Seminar (OCIS, 2021 [†])
	Big Data Meets Survey Science (BigSurv20, 2020)
	Data Science, Statistics & Visualization (DSSV, 2020)
	American Political Science Association (APSA, 2014 [*] , 2015, 2018 [‡])
	Midwest Political Science Association (MPSA, 2018)
* <i>poster</i> ; [†] <i>discussant</i> ; [‡] <i>paper & discussant</i>	

PROFESSIONAL SERVICE	<p><u>Book Reviewer</u>: Springer Mathematics</p> <p><u>Conference Reviewer</u>: Machine Learning for Health (ML4H, 2021); NeurIPS Workshop on Machine Learning and the Physical Sciences (2019, 2020); Uncertainty in Artificial Intelligence (UAI, 2021)</p> <p><u>Journal Reviewer</u>: (> 1 papers) <i>Alexandria Engineering Journal</i>; <i>Applied Artificial Intelligence</i> (2); <i>Applied Sciences</i> (2); <i>Distributed and Parallel Databases</i>; <i>Economics & Politics</i>; <i>European Journal of Operational Research</i>; <i>Frontiers in Big Data – Data Mining and Management</i> (2); <i>GigaScience</i>; <i>Journal of Applied Econometrics</i>; <i>Sensors</i>; <i>Statistical Methods & Applications</i>; <i>Statistics and Public Policy</i></p>
GRANTS AND FELLOWSHIPS	<p>National Science Foundation Frontera Startup Allocation: “RNN-Based Counterfactual Prediction on High-Dimensional Longitudinal Health Data” (SES20001), 2020-2021</p> <p>National Science Foundation XSEDE Startup Allocation: “RNN-Based Counterfactual Time-Series Prediction” (SES180010), 2018-2019, 2020-2021 (\$2,172)</p> <p>Berkeley Empirical Legal Studies Graduate Fellowship, University of California, Berkeley, School of Law, 2016-2017 (\$1,000)</p> <p>National Science Foundation Graduate Research Fellowship, 2013-2018</p>
OTHER PROFESSIONAL EXPERIENCE	<p>Research Support Associate, Department of Political Science, MIT, 2011 - 2013</p> <p>Research Assistant, Department of Economics, Harvard University, 2010 - 2011</p> <p>Research Assistant, Harvard Kennedy School, Harvard University, 2009 - 2010</p>
TECHNICAL SKILLS	<p><u>Languages</u>: R (expert); Python (moderate); bash (moderate); C/C++/UPC (novice)</p> <p><u>VCS</u>: git + github; SVN</p> <p><u>Frameworks & libraries</u>: TensorFlow; Keras; scikit-learn; Open MPI</p> <p><u>Operating systems</u>: Linux (CentOS; Ubuntu)</p>