

# Jason Poulos

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PROFESSIONAL APPOINTMENTS	<b>Harvard Medical School</b> , Boston, MA Postdoctoral Fellow in Data Science, Department of Health Care Policy, 2021 –  <b>Duke University</b> and <b>SAMSI</b> , Durham, NC Postdoctoral Associate, Department of Statistical Science, 2019 – 2021 Postdoctoral Associate, SAMSI, 2019 – 2021	
EDUCATION	<b>University of California, Berkeley</b> Ph.D., Political Science with a Designated Emphasis in Computational Science and Engineering, 2019  M.A., Political Science, 2014  <b>University of Massachusetts, Amherst</b> B.A., Economics, 2008 (Phi Beta Kappa)	
REFEREED ARTICLES	Jason Poulos and Rafael Valle (2021). “Character-Based Handwritten Text Transcription with Attention Networks.” <i>Neural Computing &amp; Applications</i> .  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.	
MANUSCRIPTS UNDER REVIEW	“RNN-Based Counterfactual Prediction, with an Application to Homestead Policy and Public Schooling” (with Shuxi Zeng). Minor revisions requested, <i>Journal of the Royal Statistical Society, Series C</i> . <a href="https://arxiv.org/abs/1712.03553">arXiv:1712.03553</a> .  “Adversarial Machine Learning: Bayesian Perspectives” (with David Rios Insua, Roi Naveiro, and Victor Gallego). Revisions requested, <i>Journal of the American Statistical Association – Reviews</i> . <a href="https://arxiv.org/abs/2003.03546">arXiv:2003.03546</a> .	

“Are Deep Learning Models Superior for Missing Data Imputation in Large Surveys? Evidence from an Empirical Comparison” (with Zhenhua Wang, Olanrewaju Akande, and Fan Li). [arXiv:2103.09316](#).

“State-Building through Public Land Disposal? An Application of Matrix Completion for Counterfactual Prediction.” [arXiv:1903.08028](#).

“Amnesty Policy and Elite Persistence in the Postbellum South: Evidence from a Regression Discontinuity Design.” [arXiv:2103.14220](#).

MANUSCRIPTS IN  
PREPARATION

“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).

PROFESSIONAL  
SERVICE

**Conference Reviewer:** NeurIPS Workshop on Machine Learning and the Physical Sciences (2019, 2020); Uncertainty in Artificial Intelligence (UAI, 2021)

**Book Reviewer:** Springer Mathematics

**Journal Reviewer:** *Applied Artificial Intelligence*; *Distributed and Parallel Databases*; *Economics & Politics*; *European Journal of Operational Research*; *Statistics and Public Policy*

GRANTS AND  
FELLOWSHIPS

PI, **National Science Foundation** Frontera Startup Allocation: “RNN-Based Counterfactual Prediction on High-Dimensional Longitudinal Health Data” (SES20001), 2020-2021

PI, **National Science Foundation** XSEDE Startup Allocation: “RNN-Based Counterfactual Time-Series Prediction” (SES180010), 2018-2019, 2020-2021 (\$2,172)

Berkeley Empirical Legal Studies Graduate Fellowship, **University of California, Berkeley**, School of Law, 2016-2017 (\$1,000)

**National Science Foundation** Graduate Research Fellowship, 2013-2018

CONFERENCE &  
WORKSHOP  
PRESENTATIONS

Advances in Interdisciplinary Statistics and Combinatorics (AISC, 2021)

“Slavery & Its Legacies Symposium” (USC Bedrosian Center, 2021)

Society for Political Methodology (PolMeth, 2020; PolMeth Europe, 2021)

“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)

<sup>\*</sup>poster presentation; <sup>†</sup>discussant

OTHER                      Research Support Associate, Department of Political Science, **MIT**, 2011 - 2013  
PROFESSIONAL            Research Assistant, Department of Economics, **Harvard University**, 2010 - 2011  
EXPERIENCE               Research Assistant, Harvard Kennedy School, **Harvard University**, 2009 - 2010

TECHNICAL    **Languages:** R (expert); Python (moderate); bash (moderate); C/C++/UPC (novice)  
SKILLS        **VCS:** git + github; SVN  
                 **Frameworks & libraries:** TensorFlow; Keras; scikit-learn; Open MPI  
                 **Operating systems:** Linux (CentOS; Ubuntu)