

**JONATHAN ROTH**

<https://jonathandroth.github.io>

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**Employment:**

2021- Assistant Professor, Brown University Department of Economics  
2020-2021 Senior Researcher, Microsoft Office of the Chief Economist

**Education:**

Ph.D, Economics, Harvard University, 2020  
Dissertation title: “Essays in Robust Inference”  
Dissertation committee: Isaiah Andrews (chair), Elie Tamer, Lawrence Katz

B.A., Economics and Mathematics, University of Pennsylvania, *summa cum laude*, 2013

**Teaching and Research Fields:**

Primary fields: Econometrics  
Secondary fields: Labor Economics, Machine learning and algorithmic fairness

**Honors, Scholarships, and Fellowships:**

2021 Arnold Zellner Thesis Award in Econometrics and Statistics – Honorable Mention  
2020 David A. Wells Prize for best dissertation in economics (Harvard)  
2019 Harvard Dissertation Completion Fellowship  
2016-2018 National Science Foundation Graduate Research Fellowship  
2013 Shanbaum Prize for Excellence in Undergraduate Economics (UPenn)  
2012 Simon Kuznets Fellowship Award in Economics (UPenn)

**Publications and forthcoming papers:**

“Inference for Linear Conditional Moment Inequalities” (with Isaiah Andrews and Ariel Pakes)  
*Forthcoming, Review of Economic Studies*

“When Is Parallel Trends Sensitive to Functional Form?” (with Pedro H.C. Sant’Anna) *Forthcoming, Econometrica*

“Pre-test with Caution: Event-study Estimates After Testing for Parallel Trends” *American Economic Review: Insights* 2022, 4(3): 305-322.

“An Outcome Test of Discrimination for Ranked Lists” (with Guillaume Saint-Jacques and YinYin Yu), *2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT 2022)*.

“Why Do Sectoral Employment Programs Work? Evidence from WorkAdvance?” (with Lawrence F. Katz, Richard Hendra, and Kelsey Schaberg), *Journal of Labor Economics*, 40, S1 (April 2022), S249-S291.

“Bias In, Bias Out? Evaluating the Folk Wisdom” (with Ashesh Rambachan) *1st Symposium on the Foundations of Responsible Computing (FORC 2020)*, LIPIcs, 156, Pp. 6:1-6:15.

**Working Papers:**

“What’s Trending in Difference-in-Differences? A Synthesis of the Recent Econometrics Literature”  
(with Pedro Sant’Anna, Alyssa Bilinski, and John Poe) Conditionally accepted, *Journal of Econometrics*

“Efficient Estimation for Staggered Rollout Designs” (with Pedro H.C. Sant’Anna)  
Revision requested, *Journal of Political Economy: Microeconomics*

“Design-Based Uncertainty for Quasi-Experiments” (with Ashesh Rambachan)

“A More Credible Approach to Parallel Trends” [Previously titled, “An Honest Approach to Parallel Trends”] (with Ashesh Rambachan)  
Conditionally accepted, *Review of Economic Studies*

“Union Reform and Teacher Turnover: Evidence from Wisconsin’s Act 10”

### **Conferences, Seminars, and Invited Presentations (including upcoming):**

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| 2022 | ASSA Annual Conference, University of Chicago, Cornell, Northwestern, Ohio State, Sciences Po, Toulouse, Hebrew University, Tel Aviv University, North American Summer Meetings of the Econometric Society, FTC, University of Southern Denmark, CEME Conference for Young Econometricians, University of Glasgow, Electronic Health Economics Colloquium, Boston University, Interactions: Bringing Together Econometrics and Applied Economics  |
| 2021 | Gary Chamberlain Online Seminar in Econometrics, Berkeley Causal Inference Reading Group, Society of Labor Economics Annual Conference, University of Ottawa (DiD Reading Group), University of Washington (CHOICE), International Association for Applied Econometrics Annual Conference, Cowles Foundation Econometrics Conference, North American Summer Meetings of the Econometric Society, University of Pennsylvania, University of California – Berkeley (Economics), University of Maryland, Columbia University, University of Strathclyde, University of Mannheim, CREST/PSE, Neurips MLECON, One World YoungStatS |
| 2020 | University of Chicago (Booth), Princeton University, Philadelphia Federal Reserve Bank, Brown University, Dartmouth University, University of Michigan, Microsoft, Yale University, Brandeis University, University College London, University of Rochester, UC-Davis, Southern Economic Association (SEA) Annual Conference  |
| 2019 | Econometrics International PhD Conference (Erasmus University of Rotterdam), American Educational Research Association Annual Conference, Quantco   |

### **Professional Service:**

Referee for *American Economic Journal: Economic Policy*, *American Economic Review*, *American Political Science Review*, *Biometrika*, *Econometrica*, *Educational Policy*, *Journal of Applied Econometrics*, *Journal of Business & Economics Statistics*, *Journal of Econometrics*, *Journal of Policy Analysis and Management*, *Journal of Political Economy*, *Journal of the American Statistical Association*, *Journal of the Association of Environmental and Resource Economists*, *Journal of the European Economic Association*, *Journal of Public Economics*, *Proceedings of the National Academy of Sciences*, *Review of Economic Studies*, *Review of Economics and Statistics*, *Quantitative Economics*, *Quarterly Journal of Economics*

Program committee for SOLE Annual Conference (2021); NeurIPS 2021 Workshop on Machine Learning Meets Econometrics (MLECON)

Discussant at SEA 2020, ASSA 2022

**Statistical Software:** (Co-)Developer of HonestDiD (R), pretrends (R and Shiny), and staggered (R and Stata) packages

**Teaching Experience:**

Spring 2022	Mathematical Econometrics I (1630), Brown University
Spring 2018	The Econometrics of Machine Learning (teaching fellow), Harvard University

Senior thesis advisor for Kunj Padh

**Other Experience:**

2016-2018	Research Assistant for Professor Isaiah Andrews
2015	Research Assistant for Professors Lawrence Katz and Claudia Goldin
2013-2014	Analyst, Cornerstone Research