JONATHAN ROTH
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Employment:

	Brown University, Department of Economics
2023-	Groos Family Assistant Professor of Economics
2021-2023	Assistant Professor
2020-2021	Senior Researcher, Microsoft Office of the Chief Economist

Education:

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

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
2016-2020	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:

"(Empirical) Bayes Approaches to Parallel Trends" (with Soonwoo Kwon). *AEA Papers and Proceedings 2024, 114: 606-609.* [Non peer-reviewed]

"Logs with zeros? Some problems and solutions" (with Jiafeng Chen)
[Previously titled, "Log-like? Identified ATEs defined with zero-valued outcomes are (arbitrarily) scale-dependent"] *Quarterly Journal of Economics 2024, 139(2): 891:936.*

"Inference for Linear Conditional Moment Inequalities" (with Isaiah Andrews and Ariel Pakes) *Review of Economic Studies 2023, 90(6): 2763-2791.*

"Efficient Estimation for Staggered Rollout Designs" (with Pedro H.C. Sant'Anna)
Journal of Political Economy Microeconomics 2023, 1(4): 669-709.

"A More Credible Approach to Parallel Trends" (with Ashesh Rambachan)
[Previously titled, "An Honest Approach to Parallel Trends"]
Review of Economic Studies 2023, 90(5): 2555–2591 (Featured Article).

"What's Trending in Difference-in-Differences? A Synthesis of the Recent Econometrics Literature"

(with Pedro Sant'Anna, Alyssa Bilinski, and John Poe) *Journal of Econometrics 2023, 235(2): 2218-2244*.

"When Is Parallel Trends Sensitive to Functional Form?" (with Pedro H.C. Sant'Anna), *Econometrica 2023, 91(2): 737-747*.

"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 2022, 40(S1): 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:

Interpreting Event-Studies from Recent Difference-in-Differences Methods

"Design-Based Uncertainty for Quasi-Experiments" (with Ashesh Rambachan)
Reject and resubmit, Journal of the American Statistical Association

"Union Reform and Teacher Turnover: Evidence from Wisconsin's Act 10"

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

2024	ASSA Annual Conference, UCL, LSE, Amsterdam
2023	ASSA Annual Conference, Harvard/MIT, Stanford GSB, University of Zurich, UC – Irvine, UC – San Diego, UCLA, University of Exeter, International Seminar on Selective Inference, Penn State, University of Chicago (Booth), Boston College, Princeton, Chamberlain Seminar
2022	ASSA Annual Conference, University of Chicago, Cornell, Northwestern, Ohio State, Sciences Po, Toulouse, Hebrew University, Tel Aviv University, North American Summer Meeting of the Econometric Society, FTC, University of Southern Denmark, CEME Conference for Young Econometricians, University of Glasgow, Electronic Health Economics Colloquium, Boston University (Economics), Boston University (Questrom), Interactions: Bringing Together Econometrics and Applied Economics, Vanderbilt, Georgetown, Southern Economic Association (SEA) Annual Conference, ACM FAccT, Bravo Center Workshop on the Economics of Algorithms
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 Manheim, 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 *Annals of Statistics*, *American Economic Journal: Economic Policy*, *American Economic Review*, *American Economic Review: Insights*, *American Political Science Review*, *Biometrika*, *Econometrica*, *Educational Policy*, *Journal of Applied Econometrics*, *Journal of Business & Economics Statistics*, *Journal of Econometrics*, *Journal of Labor Economics*, *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*, *Journal of Urban Economics*, *Proceedings of the National Academy of Sciences*, *Review of Economic Studies*, *Review of Economics and Statistics*, *Quantitative Economics*, *Quarterly Journal of Economics*

Editorial board, Institute for Replication

Co-organizer, Bravo Center Workshop on the Economics of Algorithms

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

Discussant at SEA (2020, 2022), ASSA (2022, 2024), Bravo Center Workshop on the Economics of Algorithms (2022), Cowles Foundation (2023), Online Causal Inference Seminar (2023), NBER CRIW Conference on Race, Ethnicity, and Economic Statistics for the 21st Century (2024)

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

Teaching and Advising:
S'22, S'23,   Mathematical Econometrics I (1630), Brown University
F'23
S'2018   The Econometrics of Machine Learning (teaching fellow), Harvard University

Undergraduate thesis advisor for: Kunj Padh, Zach Reiss, Anabelle Roth

Dissertation committee member (* indicates chair; initial placements in parentheses):
Vincent Starck (KU Leuven); Patrick Vu* (UNSW); Tommaso Coen (Bocconi post-doc)

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