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Employment

Federal Reserve Bank of Philadelphia:

Economic Advisor and Economist, 2021-Present.

Senior Economist, 2019-2020.

University of Wisconsin-Madison, Department of Economics: Assistant Professor, 2014-2019.

Education

Ph.D., Economics, University of Chicago, 2008-2014.

B.A., Applied Mathematics, University of California, Berkeley, 2006.

Refereed Publications

1. Scalable Demand and Markups (with Erika Frost, Alan Sorensen, Christopher Sullivan, and Wanjia Zhu), *Journal of Political Economy*, 2025, forthcoming
2. The Geography and Job Tasks (with Sebastian Sotelo and Daniel Tannenbaum), *Journal of Labor Economics*, 2024, 42(4): 979-1008. <https://doi.org/10.1086/725360>
3. Product Repositioning by Merging Firms (with Alan Sorensen, Christopher Sullivan, and Wanjia Zhu), *Journal of Industrial Economics*, 2024, 72(2): 868-908. <https://doi.org/10.1111/joie.12373>
4. A Twenty-First Century of Solitude? Time Alone and Together in the United States, *Journal of Population Economics*, 2024, 37(12). <https://doi.org/10.1007/s00148-024-00978-0>
5. The Evolution of Work in the United States (with Phai Phongthientham, Sebastian Sotelo, and Daniel Tannenbaum), *American Economic Journal: Applied Economics*, 2020, 12(2): 1-36. <https://doi.org/10.1257/app.20190070>
2023 AEJ: Applied Economics Best Paper Award Winner.
6. How Wide Is the Firm Border? (with Ali Hortaçsu, Mary Jialin Li, and Chad Syverson), *Quarterly Journal of Economics*, 134(4): 1845-1882. <https://doi.org/10.1093/qje/qjz026>
7. New Technologies and the Labor Market (with Phai Phongthientham, Sebastian Sotelo, and Daniel Tannenbaum), *Journal of Monetary Economics* (Carnegie-Rochester-NYU Conference Series), 2018, 97: 48-67. <https://doi.org/10.1016/j.jmoneco.2018.05.008>
8. Accounting for the Sources of Macroeconomic Tail Risks (with Thorsten Drautzburg and Zhenting Wang), *Economics Letters*, 2018, 165: 65-69. <https://doi.org/10.1016/j.econlet.2018.01.032>
9. How Important Are Sectoral Shocks?, *American Economic Journal: Macroeconomics*, 2017, 9(4): 254-280. <https://doi.org/10.1257/mac.20160353>
10. Vertical Integration and Input Flows (with Ali Hortaçsu and Chad Syverson), *American Economic Review*, 2014, 12(4): 1120-1148. <https://doi.org/10.1257/aer.104.4.1120>
11. Materials Prices and Productivity, *Journal of the European Economic Association*, 2014, 12(3): 575-611. <https://doi.org/10.1111/jeea.12036>
12. Sources of Variation in Social Networks, *Games and Economic Behavior*, 2013, 79: 106-131. <https://doi.org/10.1016/j.geb.2013.01.009>

13. Network Structure of Production (with Ali Hortaçsu, Jimmy Roberts, and Chad Syverson), *Proceedings of the National Academy of Sciences*, 2011, 108(13): 5199-5202. <https://doi.org/10.1073/pnas.1015564108>
14. The Topology of the Federal Funds Market (with Morten Bech), *Physica A*, 2010, 389(22): 5223-5246. <https://doi.org/10.1016/j.physa.2010.05.058>

Working Papers

1. Parental Labor Supply and Time Use: Evidence and Implications from the Pandemic (with Ryan Kobler and Ryan Michaels), 2024.
2. Firm Technology Upgrading through Emerging Work (with Sarada), 2020, *Federal Reserve Bank of Philadelphia Working Paper # 20-44*. <https://doi.org/10.21799/frbp.wp.2020.44>
3. Micro- and Macroeconomic Impacts of a Place-Based Industrial Policy (with Ali Hortaçsu, Mustafa Runyun, Chad Syverson, and Mehmet Fatih Ulu), 2023, *Federal Reserve Bank of Philadelphia Working Paper # 23-12*. <https://doi.org/10.21799/frbp.wp.2023.12>

Federal Reserve Bank of Philadelphia Publications

1. Time Use Before, During, and After the Pandemic, 2023, *Economic Insights*, 8(4): 2-13.
2. How Accurate Are Long-Run Employment Projections?, 2020, *Economic Insights*, 5(4): 12-18.
3. Reopening the Economy: What Are the Risks, and What Have States Done? (with Shigeru Fujita, Sreyas Mahadevan, Ryan Michaels, and Tal Roded) *Federal Reserve Bank of Philadelphia Research Brief*, 2020.

Older Research Papers

1. Quantifying the Benefits of a Liquidity-Saving Mechanism (with Antoine Martin and Jamie McAndrews), 2010, *Federal Reserve Bank of New York Staff Reports #447*.
2. The Welfare Effects of a Liquidity-Saving Mechanism (with Antoine Martin and Jamie McAndrews), 2010, *Federal Reserve Bank of New York Staff Reports #331*.

Discussions/Comments

- Review of “Financial and Macroeconomic Connectedness: A Network Approach to Measurement and Monitoring,” by Francis Diebold and Kamil Yilmaz. *Journal of Economic Literature*, 53(4): 1021-1023.
- Discussion of “Monetary Policy through Production Networks: Evidence from the Stock Market,” by Michael Weber and Ali Ozdagli, presented at the 2017 ASSA Meetings.
- Discussion of “Cascades and Fluctuations in an Economy with an Endogenous Production Network,” by Mathieu Taschereau-Dumouchel, presented at the 2017 ITAM-PIER Conference on Macroeconomics.
- Discussion of “Financial Networks over the Business Cycle” by Alexandr Kopytov, presented at the 2019 Federal Reserve Board Conference on the Interconnectedness of Financial Systems.
- Discussion of “Structural Change Within Versus Across Firms: Evidence from the United States” by Xiang Ding, Teresa Fort, Stephen Redding, and Peter Schott, presented at the 2019 NBER Conference on Mega-Firms and Changes in Market Power.

Discussion of “Automation, Spatial Sorting, and Job Polarization” by Jan Eeckhout, Christoph Hedtrich, and Roberto Pinheiro, presented at the 2020 ASSA Meetings.

Discussion of “Quantifying the Impact of AI on Productivity and Labor Demand: Evidence from United States Census Microdata” by Dean Alderucci, Lee Branstetter, Ed Hovy, Andrew Runge, and Nikolas Zolas, presented at the 2020 ASSA Meetings.

Panelist at BLS conference on “Automation and the Labor Force: Data Collection Strategies,” June 24, 2020.

Discussion of “Financial Contagion in International Supply Chain Networks,” by Christoph Schiller, presented at the 2021 Second Conference on the Interconnectedness of Financial Systems.

Discussion of “Electronic Miniaturization and Economic Growth,” by Pablo Azar, presented at the 2021 Federal Reserve System Macroeconomics Meetings.

Discussion of “The Decline of the Labor Share and New Technology Diffusion,” by Shoki Kusaka, Tetsuji Okazaki, Ken Onishi, and Naoki Wakamori, presented at the 2022 Federal Reserve System Applied Microeconomics Meetings.

Discussion of “The Income Share of Energy and Substitution: A Macroeconomic Approach,” by Nida Çakır Melek and Musa Orak, presented at the 2022 Federal Reserve System Energy Meetings.

Discussion of “The Aggregate Importance of Intermediate Input Substitutability,” by Alessandra Peter and Cian Ruane, presented at the 2023 ASSA Meetings.

Discussion of “Teen Social Interactions and Well-being during the COVID-19 Pandemic,” by Charlene Marie Kalenkoski and Sabrina Pabilonia, presented at the 2024 ASSA Meetings.

Discussion of “The Network Structure of Money Multiplier,” by Ye Li, Yi Li, and Huijun Sun, presented at the Third Conferences on the Interconnectedness of Financial Systems.

Discussion of “Job Tasks, Worker Skills, and Productivity,” by Jake Blackwood, Cindy Cunningham, Matthew Dey, Lucia Foster, Cheryl Grim, John Haltiwanger, Rachel Nesbit, Sabrina Pabilonia, Jay Stewart, Cody Tuttle, Zoltan Wolf, presented at the 2024 Southern Economic Association Meetings.

Discussion of “The Effect of Software Adoption on Skill Demand and Inequality,” by Zara Contractor and Bledi Taska, presented at the 2025 ASSA Meetings.

Teaching Experience

Spring, 2015-2019: Industrial Organization and Imperfect Competition (Undergraduate)

Spring, 2016-2019: Macroeconomic Theory (Graduate)

Fall, 2014-15, Spring 2017-19: Topics in Macroeconomics (Graduate)

Professional Activities

Program committee for the Spring 2018 Midwest Macro Meetings.

Program committee for the 2019, 2021, 2022 Society for Economic Dynamics Meetings.

Program committee for the Second and Third Conferences on the Interconnectedness of Financial Systems, at the Federal Reserve Board.

Member of the BLS Technical Advisory Committee: April 2022-March 2025.

External Grants

Washington Center for Economic Growth: \$43,000, April 2016 to March 2018. Joint with Daniel Tannenbaum and Sebastian Sotelo.

Russell Sage Foundation: \$114,772, July 2018 to June 2020. Joint with Daniel Tannenbaum and Sebastian Sotelo.

Presentations by Year (* indicates a scheduled presentation, † a virtual presentation)

2008: Payments and Networks Conference at UC Santa Barbara

2012: Midwest Macro Meetings; Research Data Center Annual Conference, Chicago FRB; 10th Annual International Industrial Organization Conference

2013: Midwest Macro Meetings; Networks in Macroeconomics and Finance Conference at the BFI; EIEF Doctoral Workshop in Economic Theory and Econometrics.

2014: Columbia, Federal Reserve Bank of New York, Federal Reserve Board, Northwestern, Pennsylvania, UC-Berkeley, UCLA, UW-Madison

2015: Federal Reserve Bank of Richmond, Mannheim, UW-Milwaukee, Vanderbilt

2016: University of Nebraska, University of Connecticut

2017: ASSA Meetings, Cornell University, Carnegie-Rochester-NYU Conference, Sabanci University, Tinbergen Institute Conference on International Production Networks

2018: Virginia Tech, Society for Institutional & Organizational Economics Meetings, Midwest Macro Meetings, Society for Economic Dynamics Meetings, ESRC/Cenmap Conference on the Empirical Analysis of Contracting and Bargaining, NBER Summer Institute (CRIW); University of British Columbia, University of Memphis, Brigham Young University, Federal Reserve Bank of Philadelphia, Federal Reserve Bank of Richmond, Washington University of St. Louis Mini-Conference, Empirical Management Conference at Harvard Business School

2019: US Census Bureau, Federal Reserve Bank of Atlanta, Society for Labor Economics Meetings, Society for Economic Dynamics Meetings, UT-Austin Workshop on Trade and Business Cycles, De Paul University, Bank of Mexico, Indiana University

2020: Drexel University, Labor Markets and Public Policy Workshop at Clemson University, Federal Reserve System Applied Microeconomics Conference†, University of Western Australia†, Uppsala University†

2021: Université du Québec à Montréal†, Harvard Kennedy School Growth Lab†, Society for Economic Dynamics Meetings†, Stony Brook, UC-Santa Cruz†, Princeton

2022: TOBB University of Economics and Technology†, University of Nottingham†, Cornell University, Society for Economic Dynamics Meetings, NBER Summer Institute (Urban), 44th International Association for Time Use Research Conference, University of North Carolina-Chapel Hill, National Bank of Ukraine†, Bureau of Labor Statistics†

2023: North Carolina State University, HEC Paris, Bank of Japan-Bank of Canada-Philadelphia Fed Joint Workshop on Macroeconomics, Temple University

2024: University of Groningen†, Society for Economic Dynamics Meetings

2025: Wake Forest, IMF