

Senior Economist, Stress Testing, Net Revenue  
Board of Governors of the Federal Reserve System  
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Google Scholar Citations: 997

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## Experience

Federal Reserve Board, Senior Economist 2017 –, Economist 2013 – 2017  
Tepper School of Business, CMU, Distinguished Service Professor, Spring 2023, Spring 2024  
Tepper School of Business, CMU, Adjunct Professor/Visiting Scholar, Fall 2016–Spring 2018  
The World Bank, Short Term Consultant, June–July 2012

## Education

Ph.D. Economics, University of Pennsylvania, May 2013  
M.S. Mathematics, Texas Tech University, August 2007  
M.S. Economics, Texas Tech University, December 2006

## Fields of Interest

*Broad:* Empirical Microeconomics, Applied Microeconomic Theory  
*Current:* Social and Financial Networks, Health Economics, Public Economics

## Papers

Long-Run Equilibrium in the Market of Mobile Services in the USA, *MDPI Mathematics* (2024)  
(with Kabaivanov, Kopanov, Zhelenski, Zlatanov)  
Interconnected DeFi: The Case of Terra Collapse, *FEDS WP* (2023), (with Watsky)  
Intraday Liquidity Around the World, *BIS WP* (2023)  
Nash Equilibria on (Un)Stable Networks, *Econometrica* (2021)  
Fedwire Funds Service, *FEDS WP* (2021), (with Clark, Ebanks, Marquardt, and Mills)  
Distributed ledger technology in payments, clearing and settlement, *JFMI* (2018)  
Bitcoin: Technical Background and Data Analysis, *FEDS WP* (2014), (with Chen)  
Housing Finance Across Countries: New Data and Analysis, *SSRN* (2013), (with Beck, Vado, Walley)

## Honors, Fellowships, Grants

Paul Taubman Prize for Empirical Economics Research, “best empirical study by a graduate student”  
University of Pennsylvania, 2013  
TRIO grant (Boettner Center, Population Aging Research Center and Population Studies Center),  
University of Pennsylvania, “Friendship Networks and Smoking: Theory and Evidence”, 2012-2013  
University fellowship, University of Pennsylvania, 2007-2008

Patrick Odell scholar, “outstanding mathematical talent”, Department of Mathematics, Texas Tech University, 2007-2008

Chancellor’s fellowship, Department of Economics, Texas Tech University, 2005-2008

### **Conference & Seminar Presentations**

2024 Misericordia University, Bank of Canada (scheduled)

2023 NSF Conference on Networks, NASMES-UCLA, Virginia Tech

2021 EEA-ESEM, Network Science and Economics (Booth)

2019 ASSA (Atlanta) discussion, Cornell

2018 ASSA (Philadelphia) declined, European Meetings of Econometric Society (Cologne)

2017 International Association for Applied Econometrics (Sapporo), 5th European Conference on Networks (UCL)

2016 Asian Meetings of ES (Kyoto), North American Summer Meetings (Penn), NYU, Society for Economic Measurement (Thessaloniki), Society for Economic Dynamics (Toulouse), SITE (Stanford), University of Hawaii, UPitt

2015 American Economic Association (Boston), Econometric Society World Congress (Montreal), International Association for Applied Econometrics (University of Macedonia), Information Transmission in Networks (Harvard), INFORMS (Montreal), St. Louis (Econ)

2014 GWU, North American Summer Meetings (Minnesota), Society for Economic Dynamics (Toronto), UT Dallas (Jindal)

2013 Board of Governors, Bocconi, Konstantz, Mannheim, Minnesota, St. Louis (OLIN), Texas Tech, Tilburg, Yale (SOM), European Meeting of ES (Toulouse), Annual Congress of EEA (Toulouse)

2012 Extreme Science and Engineering Discovery Environment (XSEDE), UPenn, North American Summer Meetings (Northwestern), Summer School on Socio Economic Inequality (UChicago), Quantitative Marketing and Economics (Duke)

### **Referee Service**

Econometrica, Journal of Political Economy, Review of Economic Studies, European Economic Review, International Economic Review, Quantitative Economics

### **Software**

FORTRAN, C/C++, CUDA, OpenMP, MPI  
R, STATA, Python, MATLAB, LaTeX