

Federal Reserve Board  
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## Experience

Federal Reserve Board, Senior Economist 2017 –, Economist 2013 – 2017  
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

### *Social networks*

Nash Equilibria on (Un)Stable Networks, *Econometrica*, (May, 2021)

Social Networks and the Stepping Stone Effect: The Case of Tobacco and Marijuana

### *Payments, Bitcoin, Older*

Intraday Liquidity Around the World, forthcoming BIS WP

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 M. Chen)

Housing Finance Across Countries: New Data and Analysis, (with T.H.L. Beck, L. Vado, S. 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**

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, Konstanz, 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, European Economic Review, International Economic Review, Journal of Political Economy, Quantitative Economics

### **Software**

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