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Academic Appointments

Kellogg School of Management, Northwestern University Associate Professor of Managerial Economics & Decision Sciences	07/17 – present
Pritzker School of Law, Northwestern University Associate Professor (courtesy appointment)	09/17 – present
Columbia Business School, Columbia University Daniel W. Stanton Associate Professor of Business Associate Professor Assistant Professor	09/15 – 06/17 07/15 – 08/15 07/11 – 06/15
Cowles Foundation, Yale University Visiting Associate Professor	09/16 – 12/16
Massachusetts Institute of Technology Post-Doctoral Associate	10/09 – 06/11

Education

University of Pennsylvania
PhD, Electrical and Systems Engineering, 2009
MA, Economics, 2008
MSE, Electrical Engineering, 2006

Sharif University of Technology
BSc, Electrical Engineering, 2004

Publications

Production Networks: A Primer
(with Vasco Carvalho)
Annual Review of Economics, forthcoming.

A Theory of non-Bayesian Social Learning
(with Pooya Molavi and Ali Jadbabaie)
Econometrica, 86(2): 445–490, 2018.

Microeconomic Origins of Macroeconomic Tail Risks
(with Daron Acemoglu and Asuman Ozdaglar)
American Economic Review, 107(1): 54–108, 2017.

Exchange Rates and Monetary Policy Uncertainty
(with Philippe Mueller and Andrea Vedolin)
Journal of Finance, 72(3): 1213–1252, 2017.

Networks, Shocks, and Systemic Risk

(with Daron Acemoglu and Asuman Ozdaglar)

The Oxford Handbook of the Economics of Networks, Chapter 21, 569–607, 2016.

Systemic Risk and Stability in Financial Networks

(with Daron Acemoglu and Asuman Ozdaglar)

American Economic Review, 105(2): 564–608, 2015.

The Network Origins of Aggregate Fluctuations

(with Daron Acemoglu, Vasco Carvalho, and Asuman Ozdaglar)

Econometrica, 80(5): 1977–2016, 2012.

Non-Bayesian Social Learning

(with Ali Jadbabaie, Pooya Molavi, and Alvaro Sandroni)

Games and Economic Behavior, 76(1): 210–225, 2012.

Published Discussions

Discussion of “Centrality-Based Capital Allocations”

(by Adrian Alter, Ben Craig, and Peter Raupach)

International Journal of Central Banking, 11(3): 379–384, 2015.

Working Papers

Supply Chain Disruptions: Evidence from the Great East Japan Earthquake

(with Vasco Carvalho, Makoto Nirei, and Yukiko Saito)

Revise & Resubmit, *Quarterly Journal of Economics*

Collateral Shortage and Intermediation Networks

(with Marco Di Maggio)

Revise & Resubmit, *Review of Financial Studies*

Seeing the Forest for the Trees? An Investigation of Network Knowledge

(with Emily Breza and Arun Chandrasekhar)

Systemic Risk in Endogenous Financial Networks

(with Daron Acemoglu and Asuman Ozdaglar)

Inefficient Diversification and Systemic Bank Runs

(with Kostas Bimpikis)

Publications in Other Disciplines

Information Sale and Competition

(with Kostas Bimpikis and Davide Crapis)

Management Science, forthcoming.

Multi-Sourcing and Miscoordination in Supply Chain Networks

(with Kostas Bimpikis and Douglas Fearing)

Operations Research, 66(4): 1023–1039, 2018.

Coordination with Local Information

(with Munther Dahleh, John Tsitsiklis, and Spyros Zoumpoulis)

Operations Research, 64(3): 622–637, 2016

Special Issue on Information and Decisions in Social and Economic Networks.

Distributed Coverage Verification in Sensor Networks without Location Information

(with Ali Jadbabaie)

IEEE Transactions on Automatic Control, 55(8): 1837–1849, 2010.

Consensus over Ergodic Stationary Graph Processes

(with Ali Jadbabaie)

IEEE Transactions on Automatic Control, 55(1): 225–230, 2010.

A Necessary and Sufficient Condition for Consensus over Random Networks

(with Ali Jadbabaie)

IEEE Transactions on Automatic Control, 53(3): 791–795, 2008.

Work in Progress

Firms, Failures, and Fluctuations

(with Daron Acemoglu)

Information Aggregation in Heterogenous Markets

(with Yaarit Even and Xavier Vives)

Short Visiting Positions

Becker-Friedman Institute, University of Chicago

Department of Economics, April 2017

London School of Economics

Department of Finance, December 2015

Cowles Foundation, Yale University

Macroeconomics Program, November 2015

Princeton University

Department of Economics, November 2014

Teaching Experience

Business Analytics for Law (J.D./LL.M.)

Northwestern Pritzker School of Law

Fall 2018, Fall 2017.

Business Analytics I (MBA)

Kellogg School of Management

Fall 2018, Spring 2018, Fall 2017.

Macroeconomics of Networks (Ph.D.)

Department of Economics, Yale University

Fall 2016.

Managerial Statistics (MBA)

Columbia Business School

Fall 2015; Fall 2014; Fall 2013; Fall 2012; Spring 2012.

Social and Economic Networks (Ph.D.)

Columbia Business School

Spring 2016; Spring 2014.

Global Immersion: Exploring the Business Environment in Cuba (MBA)

Columbia Business School

Spring 2014.

Invited Seminars and Conference Presentations

2018:

Cornell Economics; CEPR European Summer Symposium in Economic Theory (Gerzensee); Federal Reserve Bank of Dallas; National Bank of Belgium; University of Tokyo; Université catholique de Louvain; Kyoto University; McGill Finance; BI Norwegian Business School; University of Wisconsin–Milwaukee.

2017:

Northwestern Macroeconomics Seminar; Chicago Booth Macro Workshop; Stanford GSB Economic Theory Seminar; Kellogg MEDS; Wharton Applied Economics; Federal Reserve Bank of Minneapolis; Tepper Economics; Boston University Macro Seminar; USC Economics; Workshop on International Production Networks (Erasmus University); Penn Workshop on Network Resilience.

2016:

UCLA Economics; UCLA Anderson Finance; Bocconi Decision Sciences; Dartmouth Tuck; Yale SOM; UCL Economics; Duke Fuqua; Yale Institute for Network Science; NBER Summer Institute; Workshop on Information and Social Economics (Caltech); Granularity of Macroeconomic Fluctuations Workshop (Banque de France); Society for Economic Dynamics Annual Meeting (Toulouse); CEPR European Summer Symposium in International Macroeconomics (Bank of Finland); IESE Business School; Universitat Pompeu Fabra; Workshop on Networks in Trade and Macroeconomics (University of Cambridge); European Meeting on Networks (Aix-Marseille School of Economics); Impact of Uncertainty Shocks on the Global Economy Workshop (UCL); Second Annual Conference on Network Science in Economics (Stanford); Federal Reserve Bank of Cleveland; Copenhagen Business School; The Econometric Society North American Winter Meeting (San Francisco); Risk Management & Insurance Department, Georgia State University.

2015:

Yale Economics; Edinburgh Economics; NYU Stern; Paul Woolley Center Seminar, LSE; Cornell ORIE Colloquium; Wharton Conference on Liquidity and Financial Crises; Wharton Workshop on Empirical Research in Operations Management; Data, Algorithms, and Problems on Graphs Workshop (Columbia Institute of Data Sciences); Society for Economic Dynamics Annual Meeting (Warsaw); Workshop on Networks and Systemic Risk (University of Pennsylvania); Adam Smith Workshops in Asset Pricing and Corporate Finance (LSE); Federal Reserve Bank of Philadelphia; Institute for New Economic Thinking; Systemic Risk and Financial Networks Workshop (UCLA); Rotman School of Management, University of Toronto; The Center for Financial and Risk Analytics Seminar, Stanford; Tepper Finance Seminar.

2014:

Columbia Economic Theory Seminar; University of Wisconsin–Madison Economic Theory Seminar; Systemic Risk: Models and Mechanisms Workshop (University of Cambridge); Learning in Social Networks Workshop (IESE Business School); Workshop on the Economics and Mathematics of Systemic Risk (University of British Columbia); Oxford-Man Institute of Quantitative Finance, University

of Oxford; Federal Deposit Insurance Corporation; Enhancing Prudential Standards in Financial Regulations Conference (Federal Reserve Bank of Philadelphia); PPSRC-CEPR Conference on Financial Stability and Regulation (IESE Business School); Center for Latin American Monetary Studies (CEMLA).

2013:

Networks in Macroeconomics and Finance Conference (Becker-Friedman Institute, U. Chicago); Center for Financial Innovation and Stability (Federal Reserve Bank of Atlanta); Economic Networks and Banking Conference (LSE); Federal Reserve Board of Governors; London Business School; Penn State Economics; European Meeting on Economics (Central European University).

2012:

Chicago Booth; Stanford GSB; Systemic Risk Conference (House of Finance, Goethe University); Penn Networked & Social Systems Engineering Seminar.

2011:

Columbia Business School; NYU Stern; Wharton; University of California–San Diego; Draper Laboratory, Cambridge, MA.

2010:

Duke Fuqua; Rensselaer Polytechnic Institute.

2009:

University of California – Santa Barbara.

Discussions

David Baqaee and Emmanuel Farhi, “Misallocation and Productivity in General Equilibrium,” NBER Monetary Economics Program Meeting, Federal Reserve Bank of New York, March 2018.

Maryam Farboodi, Gregor Jarosch, and Robert Shimer, “The Emergence of Market Structure,” INET Financial Networks Conference, Columbia University, February 2018.

Selman Erol, “Network Hazard and Bailouts,” INET Financial Networks Conference, Columbia University, February 2018.

Ahmad Peivandi and Rakesh Vohra, “Instability of Centralized Markets,” Econometric Society Winter Meeting, Philadelphia, January 2018.

Daron Acemoglu and Pablo Azar, “Endogenous Production Networks,” Workshop on Social and Economic Networks, Becker-Friedman Institute, University of Chicago, September 2017.

David Baqaee and Emmanuel Farhi, “The Macroeconomic Impact of Microeconomic Shocks: Beyond Hulten’s Theorem,” LSE Workshop on Networks in Macro & Finance, London School of Economics, June 2017.

Ali Ozdagli and Michael Weber, “Monetary Policy Through Production Networks: Evidence from the Stock Market,” NBER Monetary Economics Program Meeting, Federal Reserve Bank of New York, March 2016.

Matthew Leister, “Information Acquisition and Response in Peer-Effect Networks,” Third Economic Networks and Finance Conference, London School of Economics, December 2015.

Benjamin Golub and Stephen Morris, “Consensus Expectations and Conventions,” Workshop on Information Frictions and Learning, Barcelona Graduate School of Economics Summer School, June 2015.

Jean-Edouard Colliard, “Optimal Supervisory Architecture and Financial Integration in a Banking Union,” Conference on Bank Performance, Financial Stability and the Real Economy, Center for Studies in Economics and Finance, Capri, Italy, June 2015.

John Birge and Jing Wu, “Supply Chain Network Structure and Firm Returns,” Manufacturing & Service Operations Management SIG Conference, Toronto, ON, June 2015.

Saki Bigio and Jennifer La’O, “Financial Frictions in Production Networks,” Institute for New Economic Thinking, New York, NY, April 2015.

Vasco Carvalho and Nico Voigtländer, “Input Diffusion and the Evolution of Production Networks,” NBER EFJK Growth Group Meeting, Federal Reserve Bank of San Francisco, February 2015.

Adrian Alter, Ben Craig, and Peter Raupach, “Centrality-Based Capital Allocations and Bailout Funds,” Policies for Macroeconomic and Financial Stability, Annual *International Journal of Central Banking* Research Conference, Federal Reserve Bank of Philadelphia, September 2014.

Pier-André Bouchard St-Amant, “Network Rigidities and the Business Cycle,” Institute for New Economic Thinking, New York, NY, April 2014.

Matthew Elliott, Benjamin Golub, and Matthew Jackson, “Financial Networks and Contagion,” Becker-Friedman Institute Macro Financial Modeling and Macroeconomic Fragility Conference, Cambridge, MA, October 2013.

Honors and Awards

Outstanding Referee Award (2014)
Journal of Economic Dynamics & Control.

Joseph, D’16, and Rosaline Wolf Award for Best Dissertation (2010)
Department of Electrical and Systems Engineering, University of Pennsylvania.

Best Student Paper Award Finalist (2009)
IEEE Conference on Decision and Control, Shanghai, China.

Judith Rodin Fellowship (2008–2009)
School of Arts and Sciences, University of Pennsylvania.

International Economic Review Fellowship (2007–2008)
Department of Economics, University of Pennsylvania.

Pew Presidential Prize (2008)
Department of Economics, University of Pennsylvania.

Professional Activities

Ad-hoc Referee

AEJ: Macro, AEJ: Micro, American Economic Review, AER: Insights, Econometrica, Economic Letters, International Economic Review, IMF Economic Review, International Journal of Central Banking, Journal of Economic Theory, Journal of Political Economy, Journal of Econometrics, Journal of the European Economic Association, Journal of Economic Dynamics and Control, Journal of Finance, Journal of Banking & Finance, Journal of Economic Behavior & Organization, Journal of Law, Economics & Organization, Journal of International Trade & Economic Development, Management Science, Operations

Research, Operations Research Letters, Proceedings of the National Academy of Sciences, Quarterly Journal of Economics, Review of Economic Studies, Review of Finance, Review of Financial Studies, Theoretical Economics.

Co-Organizer

Transatlantic Theory Workshop, Northwestern University, August 2018.

LSE Workshop on Networks in Macro & Finance, June 2017.

Economic Networks and Finance Conference, London School of Economics, December 2016.

Program Committee Member

FRB Conference on The Interconnectedness of Financial Systems, March 2019.

FRBC/OFR/FSOC Conference on Financial Stability: Markets and Spillovers, November 2018.

ACM Conference on Economics and Computation EC'16, Maastricht, The Netherlands, July 2016.

Workshop on Social and Information Networks, Portland, OR, June 2015.

NSF/NBER/CEME Mathematical Economics and General Equilibrium Conference, October 2013.

Professional Memberships

Finance Theory Group, Macro Finance Society, American Economic Association, The Econometric Society, American Finance Association.

Committee Member

MSOM Society Student Paper Competition, 2012–2016.

Student Supervision

Advisor/Co-advisor

Yaarit Even (in progress), Gowtham Tangirala (in progress), Davide Crapis (LyFt, 2016).

Doctoral Dissertation Committee Member

Shaowen Luo (Virginia Tech, 2016), Kai Yuan (Two Sigma, 2017), Chen Chen (2014), Pooya Molavi (MIT Economics PhD, 2013), Bar Ifrach (AirBnB, 2012).