

Thanh Nguyen

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Employment

<i>Associate Professor (with tenure)</i> , Krannert School of Management, Purdue University	2019- now
<i>Assistant Professor</i> , Krannert School of Management, Purdue University	2013- 2019
<i>Postdoctoral Fellow</i> , Kellogg School of Management, Northwestern University	2010-2013

Education

<i>Ph.D.</i> , Applied Mathematics, Cornell University, Ithaca, NY	2010
<i>Diploma in Mathematics</i> , Eötvös University, Budapest, Hungary	2004

Research Interests

Game theory, Market design, Network Economics. My research focuses on analyzing network markets and designing mechanisms for market design problems. My research applies to various large-scale markets and systems, including wireless spectrum markets, electricity markets, matching markets, supply chain networks and systems engineering.

Journal Papers

1. Stable Matching with Proportionality Constraints, **Operations Research** (accepted)
T. Nguyen and R. Vohra
2. The Value of Sharing Intermittent Spectrum, **Management Science** (accepted)
R. Berry, M. Honig, T. Nguyen, V. Subramanian and R. Vohra
3. Near Feasible Stable Matchings with Couples, **American Economic Review**, Vol. 108, No. 11, 2018
T. Nguyen and R. Vohra
4. Local Bargaining and Supply Chain Instability, **Operations Research**, Volume 65, Issue 6, 2017
T. Nguyen
5. The Cost of Free Spectrum, **Operations Research**, Volume 64, Issue 6, 2016
T. Nguyen, H. Zhou, R. Berry, M. Honig and R. Vohra
6. Assignment Problems with Complementarities, **Journal of Economic Theory**, Volume 165, 2016
T. Nguyen, M. Peivandi and R. Vohra
7. Delay in Trade Networks, **Operations Research**, Volume 64, Issue 3, 2016
T. Nguyen, V. Subramanian and R. Berry

8. Coalitional Bargaining in Networks, **Operations Research**, Volume 63, Issue 3, 2015
T. Nguyen
9. A simple LP relaxation for the Traveling Salesman Problem, **Mathematical Programming**, Volume 141, Issue 1, 2013
T. Nguyen
10. On the Disjoint Paths Problem, **Operations Research Letters**, Volume 35, Issue 1, 2007
T. Nguyen

Working Papers

Stability in Matching Markets with Complex Constraints, **working paper**

Extended abstract accepted at EC 2019

with Hai Nguyen and Alex Teytelboym

Welfare Implications in Competing Ad-networks, **Information Systems Research** (major revision)

with K. Kannan

The Role of Managers Revisited, **working paper**

with Parinaz Naghizadeh

Stable Network Flow with Piecewise Linear Constraints, **working paper**

(abstract accepted at WINE 2017)

with Young-San Lin

Quantity Competition in Multi-tier Supply Chains, **working paper**

with Young-San Lin and Jiang Tao

Optimal Delegation Hierarchy in Project Management, **working paper**

with Jiang Tao

Financing of Innovation (working paper)

with Marquez, R. and Yavuz, M.D.

Awards & Grants

- (DARPA, \$328,000) Pseudo Markets with Constraints & Uncertainty (*with Rakesh Vohra*) 2018-2019
- (NSF, \$3,581,912) Sociotechnical systems to enable smart and connected energy-aware residential communities (*with Panagiota Karava, Ilias Billionis, James E Braun, Leigh Raymond, Torsten Reimer*) 2018-2022
- (NSF, Co-PI, \$502,945) Understanding strategic behavior in systems engineering: A theoretical framework based on dynamic network games of incomplete information (*with Ilias Billionis and Jitesh Panchal*) 2017-2020
- (NSF, PI, \$173,000) Creating an Ecosystem for Spectrum Utilization Through Dynamic Mechanisms 2014-2018
- Jay Ross Young Faculty Scholar Award, Krannert School of Management 2016-2017
- Outstanding Core MBA Teaching Recognition, Krannert School of Management 2015, 2016, 2017, 2018
- US Patent App. 12/714,238: Weighted Proportional Sharing Mechanisms

Teaching

Business Analytics (MBA core course), Purdue University (<i>Distinguished MBA teacher award, Instructor Evaluation 4.7/5- 4.9/5</i>)	Fall 2014, 2016, 2017, 2018
Advanced Spreadsheet Modeling (Undergraduate course)	Spring 2015, 2016, 2018
Social and Economic Networks (PhD course), Purdue University (<i>Instructor Evaluation 5/5</i>)	Spring 2014

Professional Experiences

Program Committee EC 2018 (senior member), EC 2013-2019; WINE 2013; AMMA 2015; MATCH-UP 2017, NetEcon (2018, 2019)

Reviewer for Operations Research Journals: Operations Research (ad hoc-Associate Editor), Management Science, Production and Operations Management, Manufacturing and Service Operations Management, Mathematical Programming, Mathematical Methods of Operations Research, Operations Research Letters, European Operations Research, IEEE/ACM Transactions on Networking.

Reviewer for Economic Journals: Econometrica; Journal of Economic Theory, Games and Economic Behavior, American Economic Journal: Microeconomics, Review of Economic Design, Journal of the European Economic Association, International Economic Review

Invited Presentations

Stability in Matching Markets with Complex Constraints

EC, Phoenix Arizona 2019; Informs Seattle 2019

The Role of Managers Revisited

Network Science Conference, Bloomington, IN, 2019; Network Science and Economics Conference, Bloomington 2019; Midwest Econ Theory Conference, Nashville 2018; Olin Business School, Washington University in St. Louis, 2018.

The use of Scarf lemma in market design

Economic Department Indiana University, 2018;

Stable Matchings with Proportionality Constraints:

ACM EC 2017, Cambridge MA, NSF/NBER conference, Baltimore October, 2016; INFORMS, Nashville November 2016

Near Feasible Stable Matchings with Complementarities:

Economic Department, Rice University (November 2015)

NBER Market Design Working Group Meeting (October 2015)

Chicago Booth (November 2015)

Economic Department, Ohio State University, April 2015; Cornell University, March 2015; Duke University, February 2015; Purdue University, November 2014

Competing Ad-Networks:

Ad auction workshop, Palo Alto, 2014

One-Sided Matching with Limited Complementarities:

NSF/NBER Decentralization Conference, Stanford, 2014

Delay in Trade Networks

INFORMS 2014; Allerton 2013.

Coalitional Bargaining in Networks:

Duke University, 2012; Kellogg School of Management, 2012; NSF/NBER Math Econ/GE Conference 2011; Microsoft Research New England, 2012; EC 2012

Local Bargaining and Supply Chain Instability:

NSF/NBER Decentralization Conference, California Institute of Technology, 2012; The Econometric Society's North American Summer Meetings 2012, Midwest Econ Theory 2012; EC 2012

The Cost of Free Spectrum:

INFORMS 2012.

Last updated: July 4, 2019

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