

Thanh Nguyen

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Employment

Assistant Professor, Krannert School of Management, Purdue University 2013- now
Postdoctoral Fellow, Kellogg School of Management, Northwestern University 2010-2013

Education

Ph.D., Cornell University, Ithaca, NY 2010
Diploma in Mathematics, Eötvös University, Budapest, Hungary 2005

Research Interests

My research lies at the intersection of Optimization and Game Theory. I am especially interested in market design and its applications in wireless spectrum markets; supply chain networks and matching markets.

Grants

NSF: Creating an Ecosystem for Spectrum Utilization Through Dynamic Mechanisms (\$173,000) 2014-2017

Publications

Journal Articles

Strategic Delay in Networked Bargaining **Operations Research**, 2016
with V. Subramanian and R. Berry

Coalitional Bargaining in Networks, **Operations Research**, 63, 3, 2015

A simple LP relaxation for the Traveling Salesman Problem, **Mathematical Programming**, 141,1, 2013

Newsvendor Model of Capacity Sharing, **Performance Evaluation Review**, 40, 2, 2012
with Berry, Honig, Subramanian, Zhou and Vohra

On the Disjoint Paths Problem, **Operations Research Letters**, 35, 1, 2007

Working Papers

Assignment Problems with Complementarities, **R&R, Journal of Economic Theory**, 2015
with M. Pezoandi and R. Vohra

Near Feasible Stable Matchings with Complementarities, **R&R, American Economic Review**, 2015
with R. Vohra

The Cost of Free Spectrum, **Minor Revision, Operations Research**, 2014
with H. Zhou, R. Berry, M. Honig and R. Vohra

Local Bargaining and Supply Chain Instability, **R&R, Operations Research**, 2014

Proceedings (selected)

Near Feasible Stable Matchings, **ACM Conference on Economics and Computation (EC'15)**
with Rakesh Vohra

Market Structures for Wireless Services with Shared Spectrum, **ALLERTON**, 2013
with Berry, Honig, Subramanian, and Vohra

On the Nature of Revenue-Sharing Contracts to Incentivize Spectrum-Sharing, **INFOCOM**, 2013
with Berry, Honig, Subramanian, and Vohra

Weighted Proportional Allocation, **ACM SIGMETRICS**, 2011
with M. Vojnovic

Approximate pure Nash Equilibria via Lovász Local Lemma, **WINE**, 2009
with E. Tardos

Parallel Imaging Problem, **Algorithms-ESA**, 2008
with E. Tardos

Approximately maximizing Efficiency and Revenue in Polyhedral Environments, **EC**, 2007
with E. Tardos

Teaching

Business Analytics (MBA core course), Purdue University Fall 2014, 2015
(*Distinguished MBA core teacher, Instructor Evaluation 4.7/5*)

Social and Economic Networks (PhD course), Purdue University Spring 2014
(*Instructor Evaluation 5/5*)

Professional Experiences

Program Committee for EC 2013; WINE 2013; EC 2014; EC 2015; AMMA 2015

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

Reviewer for Operations Research Journals: Management Science; Operations Research, Mathematical Programming, Mathematical Methods of Operations Research, Operations Research Letters.

Invited Presentations

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

Searching and Bargaining with Middlemen:

INFORMS 2013; 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.

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