

# THANH NGUYEN

## CONTACT INFORMATION

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## EDUCATION

Ph.D. in Applied Mathematics (2010), Cornell University, Advisor: *Éva Tardos*  
Diploma in Mathematics (2005), Eötvös University, Budapest, Hungary

## APPOINTMENTS

- Postdoctoral Fellow (2010-), Kellogg School of Management and EECS Department, Northwestern University. Advisor: *Rakesh Vohra*
- Teaching Instructor, 2012, Engineering School, Northwestern University
- Research Intern (Summer 2009), Microsoft Research, Cambridge, UK
- Teaching Instructor (Summer 2008), Computer Science Department, Cornell University

## TEACHING EXPERIENCE

- Teach **Engineering Analysis** (freshman course), Engineering School, Northwestern University, Fall 2012
- Teach **Introduction to Analysis of Algorithms** (undergraduate course) Computer Science Department, Cornell University, 2008
- Teaching Assistant at Cornell University for:  
*Algorithmic Game Theory* (2008), *Mathematical Foundations for the Information Age* (2006), *Design and Analysis of Algorithms* (2006)

## RESEARCH INTERESTS

Game Theory, Optimization, Economic & Social Networks, Market Design

## JOURNAL PUBLICATIONS

1. The Allocation of Indivisible Object via Rounding  
with R. Vohra *Submitted*
2. Coalitional Bargaining and Network Centrality  
*Submitted*
3. A Simple LP Relaxation for the Asymmetric Traveling Salesman Problem  
*Mathematical Programming (to appear)*
4. Newsvendor model of capacity sharing  
with R. Berry, M. Honig, V. Subramanian H. Zhou, and R. Vohra  
*ACM SIGMETRICS Performance Evaluation Review*, Vol 40 Issue 2, 2012
5. On the Disjoint Paths Problem  
*Operation Research Letters*, Vol. 35, 1, 2007

## REFEREED CONFERENCES

1. On the nature of revenue-sharing contracts to incentivize spectrum sharing  
with R. Berry, M. Honig, V. Subramanian, R. Vohra . *INFOCOM 2013*
2. Local Bargaining and Endogenous Fluctuations  
*ACM Electronic Commerce'12 (Top 10% paper award)*
3. Coalitional Bargaining in Networks  
*ACM Electronic Commerce'12*

4. The Weighted Proportional Sharing Mechanism  
with M. Vojnović, *Proc. ACM SIGMETRICS'11*
5. The Impact of Additional Unlicensed Spectrum  
with H. Zhou, R. Berry, M. Honig and R. Vohra, *Proc. IEEE Dynamic Spectrum Access Networks'11*
6. The Price of Free Spectrum to Heterogeneous Users  
with H. Zhou, R. Berry, M. Honig and R. Vohra, *Netecon'11*
7. Revenue Maximization by Monotonic Implementation  
*Proc. Innovation in Computer Science'11*
8. Approximate Pure Nash Equilibria via Lovász Local Lemma  
with É. Tardos, *Proc. Workshop on Internet and Network Economics'09*
9. Parallel Imaging Problem  
with É. Tardos, *Proc. European Symposium on Algorithms'08*
10. Maximizing Efficiency and Revenue in Polyhedral Environments  
with É. Tardos, *Proc. ACM Electronic Commerce'07*
11. Subgraph Characterization of König-Egerváry Graphs  
with E. Korach and B. Peis, *Proc. ACM SODA'06*

## PATENTS

Allocation of Resources, Thành Nguyen and Milan Vojnovic, US Patent App. 12/714,238

## PROFESSIONAL ACTIVITIES

- Conference PC member: ACM-EC 2013; SIGMETRICS'10 (shadow)
- Reviewer for
  - Economic Journals: Games and Economic Behavior, Journal of the European Economic Association
  - Operation Research Journals: Operation Research, Operation Research Letters
  - Mathematics and EECS Journals: Algorithmica, Discrete Applied Mathematics, Graphs and Combinatorics, Internet Mathematics, Trans. Wireless Communications, Trans. on Communications, J. on Selected Areas in Communications.
  - CS conferences: STOC'06, EC'08, FOCS'09, SODA'11, STOC'11, SODA'13, ITCS'13
- Organizer of an invited section on auctions at INFORMS'12.  
Organizer of Theory Seminar at EECS Dept, Northwestern University 2012.

## INVITED PRESENTATIONS

- Economic Conferences and Departments
  - NSF/NBER Decentralization Conference 2012,
  - The Econometric Society's North American Summer Meetings 2012,
  - Midwest Econ Theory 2012,
  - NSF/NBER Math Econ/GE Conference 2011,
  - MEDS-Kellogg School of Management
- Operation Research Conferences: INFORMS'11, INFORMS'12,
- Computer Science Departments: University of Toronto, Northwestern University, Tsinghua University, Eötvös University, Microsoft Research New England.

## REFERENCES

Available upon request.