Nima Haghpanah's Resume

CONTACT INFORMATION

Postdoctoral Researcher
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RESEARCH INTERESTS

- Mechanism and Contract Design
- Economics of the Internet, Social Networks
- Algorithms, Optimization

EMPLOYMENT

MIT. Cambridge, MA
Postdoctoral Associate, CSAIL and Sloan School of Management, September 2014 – current.

EDUCATION

Northwestern University. Evanston, IL
PhD in Computer Science, September 2009 – August 2014.
- Advisor: Prof. Jason Hartline
- Thesis: Optimal Multi-parameter Auction Design.
- Relevant courses: Microeconomics sequence (Economics), Managerial Economics Foundations sequence (Kellogg MEDS: Static Decision Models, Dynamic Decision Models, Game Theory), Mechanism Design and Linear Programming (Kellogg MEDS), Social and Economic Networks (Kellogg MEDS), Social Choice and Voting Models (Kellogg MEDS), Combinatorial Optimization, Randomized Algorithms, The Probabilistic Methods, Algorithmic Mechanism Design.

Sharif University of Technology. Tehran, Iran
M.S. Computer Engineering (Software), September 2006 – November 2008.
- Thesis: "Online Job Scheduling Mechanisms", under supervision of Mohammad Ghodsi

B.S., Computer Engineering (Software), September 2002 – June 2006.

HONORS AND AWARDS

- **Best Dissertation Award**. Northwestern University EECS Department, 2015.
- **Simons Award** for Graduate Students in Theoretical Computer Science, 2013 – 2015.
- **Yahoo! Key Scientific Challenges**. 2012.
- **Ranked 1st**. 11th "National Olympiad for University Students", Iran, 2006.

EXPERIENCES

- **Simons Institute, Berkeley**. August 2015 – present. Visiting researcher.
- **Harvard University**. January 2014 – August 2014. Visiting PhD Student.
- **Cornell University**. January – May 2013. Visiting PhD Student working with Professor Robert Kleinberg.
- **Google NYC**. July – September 2012. Summer intern.

WORKING PAPERS

- **Multi-dimensional Virtual Values and Second-degree Price Discrimination**, N. Haghpanah, J. Hartline. **Job Market Paper**. Submitted for publication. Preliminary version, titled *Reverse Mechanism Design*, appeared in 16th ACM Conference on Economics and Computation (*EC 2015*).
- **Bayesian Optimal Auctions via Multi- to Single-agent Reduction**. S. Alaei, H. Fu, N. Haghpanah, J. Hartline, A. Malekian. Submitted for publication. Preliminary version appeared in 13th ACM Conference on Economics and Computation (*EC 2012*).

PUBLICATIONS

- **Revenue Maximization with Nonexcludable Goods**. M. Bateni, N. Haghpanah, B. Sivan, M. Zadimoghaddam. ACM Transactions on Economics and Computation Special Issue for WINE papers (*TEAC*), Volume 3, no. 4 (2015): 1. Preliminary version appeared in 9th Conference on Web and Internet Economics (*WINE 2013*).

- **Optimal Auctions with Positive Network Externalities**. N. Haghpanah, N. Immorlica, V. Mirrokni, K. Munagala. ACM Transactions on Economics and Computation (*TEAC*) Volume 1, no. 2 (2013): 13. Preliminary version appeared in 12th ACM Conference on Economics and Computation (*EC 2011*).
- **Equilibrium Pricing with Positive Externalities**. N. AhmadiPourAnari, S. Ehsani, M. Ghodsi, N. Haghpanah, N. Immorlica, H. Mahini, V. Mirrokni. Theoretical Computer Science (*TCS*), Volume 476, 11 (2013): Pages 1–15. Preliminary version appeared in 6th Conference on Web and Internet Economics (*WINE 2010*).

Peer Reviewed Conferences

- **Exchange Market Mechanisms without Money**. Z. Abbassi, N. Haghpanah, V. Mirrokni. To appear in 11th Conference on Web and Internet Economics (*WINE 2015*).
- **Optimal Auctions for Correlated Bidders with Sampling**. H. Fu, N. Haghpanah, J. Hartline, R. Kleinberg. 15th ACM Conference on Economics and Computation (*EC 2014*).
- **The Simple Economics of Approximately Optimal Auctions**. S. Alaei, H. Fu, N. Haghpanah, J. Hartline. 54th IEEE Symposium on Foundations of Computer Science (*FOCS 2013*).
- **Optimal Iterative Pricing over Social Networks**. H. Akhlaghpour, M. Ghodsi, N. Haghpanah, H. Mahini, V. Mirrokni, A. Nikzad. 6th Conference on Web and Internet Economics (*WINE 2010*).

Teaching Experiences

- **Guest Lecturer** (2 lectures). Games, Decisions, and Computations, Professor Daskalakis, 2015.
- **Guest Lecturer**. Mechanism Design, Professor Hartline, 2014.
- **Teaching Assistant**. Mathematical Foundations for Computer Science, Northwestern University. Professor Immorlica, 2009. Professor Rahimi, 2012.
- **Teaching Assistant**. Algorithms, Northwestern University, Professor Hartline, 2011.
- **Teaching Assistant**. Algorithmic Game Theory (M.Sc. course), Sharif University of Technology, Professor Safari, 2008.

Professional Activities

- **Program Committee**. ACM EC'15, AMMA'15, ACM EC'16.
- **Session Organizer**. ISMP'15.
- **Subreferee**. ACM Transactions on Algorithms, ACM Transactions on Economics and Computation, SIAM Journal on Discrete Mathematics, Operations Research, Econometrica, STOC'09'13, WWW'10'15, WINE'10'11'12'13'14'15, FOCS'10'13, ICALP'12'14, EC'12'13'14, ESA'12'14.

Talks

- **Multi-dimensional Virtual Values and Second-degree Price Discrimination**. INFORMS (2015), ACM EC (2015), NBER Market Design Workshop (2014), INFORMS Revenue Management and Pricing (2015), Stony Brook Game Theory Conference (2015), Northwestern (Kellogg), Caltech, Boston University (Questrom), MIT, IBM Almaden, Stanford, USC, Microsoft Research, Harvard, Berkeley (Simons Institute).
- **The Simple Economics of Approximately Optimal Auctions**. FOCS (2013), INFORMS (2013), eBay Research, Harvard, Cornell, Google.
- **Exchange Market Mechanisms without Money**. INFORMS (2013).
- **Optimal Auctions with Positive Network Externalities**. EC (2011), INFORMS (2011).
- **Optimal Multi-dimensional Mechanisms via Multi- to Single-agent Reduction**. University of Wisconsin.
- **Optimal Iterative Pricing over Social Networks**. WINE (2010), Google.
- **Equilibrium Pricing with Positive Externalities**. WINE (2010), Google.

References

- **Itai Ashlagi**. Assistant professor, Stanford University.
- **Constantinos Daskalakis**. Associate professor, MIT.
- **Jason Hartline** (PhD advisor). Associate professor, Northwestern University.
- **Robert Kleinberg**. Associate professor, Cornell University.
- **Preston McAfee**. Chief economics, Microsoft.
- **Rakesh Vohra**. Professor, University of Pennsylvania.