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- RESEARCH INTERESTS
- ◇ Methodologies: Mathematical Programming, Combinatorial Optimization, Stochastic Optimization, Approximation Algorithms, Online Algorithms, Randomized Algorithms
 - ◇ Applications: Inventory Optimization, Matching and Search Markets, Revenue Management, Online Advertising
- EDUCATION
- ◇ **Stanford University**, Stanford, CA
Ph.D. in Management Science and Engineering, September 2005–July 2010.
Major: *Operations Research*. Thesis Title: *Rounding by Sampling*. Advisor: Amin Saberi.
 - ◇ **Sharif University of Technology**, Tehran, Iran
B.Sc. in Computer Engineering, September 2001–July 2005.
- HONORS AND AWARDS
- ◇ Best Paper Award, 21st ACM-SIAM Symposium on Discrete Algorithms (SODA), 2010.
 - ◇ Dantzig-Lieberman Operations Research Fellowship, Stanford University, 2008 and 2009.
 - ◇ Stanford School of Engineering Fellowship, 2005–2006.
 - ◇ 1st Rank, Iran’s National Graduate Entrance Exam in Computer Engineering, Iran, Spring 2004.
 - ◇ 7th Rank, Iran’s National Undergraduate Entrance Exam for Engineering among more than 350,000 participants, Summer 2001.
 - ◇ Silver Medal, 9th and 10th Iranian National Olympiad in Informatics, Summer 1999 and 2000.
- PROFESSIONAL EXPERIENCE
- ◇ **Assistant Professor**
 - **New York University - Stern School of Business, New York City, NY**
September 2011–present.
 - ◇ **Teaching Experience:**
 - **NYU Stern:** *Decision Models & Analytics*, Undergraduate, 2011–present.
 - **NYU Stern:** *Decision Models*, MBA, 2011–present.
 - **NYU Stern:** *Linear and Non-linear Optimization*, Ph.D., 2011–present.
 - **Sharif University of Technology:** *Randomized Algorithms*, M.Sc. and Ph.D., 2011.
 - ◇ **Summer Internship:**
 - **Microsoft Research (New England and Redmond)**
Summer 2007-09.
- STUDENTS
- ◇ **Xuan Wang**, expected Ph.D. completion: 2016.
- SERVICES
- ◇ **Reviewer:**
 - **Journals:** Management Science (MS), Operations Research (OR), Mathematics of Operations Research (MOR), Production & Operations Management (POM), Manufacturing & Service Operations Management (MSOM), Journal of Scheduling, Operations Research Letters.

· **Conferences:** STOC, FOCS, EC, WINE, SODA, APPROX, RANDOM.

◇ **Organizing Committee:**

· **NYCE 2014:** Seventh annual New York Computer Science and Economics Day.

PATENTS ◇ **Layerable Auction Mechanisms**, with D. Abraham and K. Jain. US20090313126A1.

JOURNAL PUBLICATIONS ◇ **Maximizing Stochastic Monotone Submodular Functions**, with Hamid Nazerzadeh, Forthcoming in MANAGEMENT SCIENCE.

◇ **Santa Claus Meets Hypergraph Matchings**, with U. Feige and A. Saberi, in ACM TRANSACTIONS ON ALGORITHMS, 2012.

◇ **An Approximation Algorithm for Max-min Fair Allocation of Indivisible Goods**, with A. Saberi, in SIAM JOURNAL OF COMPUTING, 2010.

CONFERENCE PUBLICATIONS ◇ **Concise Bid Optimization Strategies with Multiple Budget Constraints**, with M. Bateni, K. Bhawalkar, and V. Mirrokni. In the 10th Conference on Web and Internet Economics [WINE], 2014.

◇ **An $O(\log n/\log \log n)$ -Approximation Algorithm for the Asymmetric Traveling Salesman Problem**, with M. Goemans, A. Madry, S. Oveis Gharan, and A. Saberi. In the 21st ACM-SIAM Symposium on Discrete Algorithms [SODA], 2010. **Winner of the Best Paper Award.**

◇ **On the Inefficiency Ratio of Stable Equilibria**, with A. Saberi. In the 5th Conference on Web and Internet Economics [WINE], 2009.

◇ **Stochastic Submodular Maximization**, with H. Nazerzadeh and A. Saberi. Preliminary results appeared in the 4th Conference on Web and Internet Economics [WINE], 2008.

◇ **Santa Claus Meets Hypergraph Matchings**, with U. Feige and A. Saberi. In the 12th Conference on Approximation Algorithms for Combinatorial Optimization [APPROX], 2008.

◇ **An Approximation Algorithm for Max-Min Fair Allocation of Indivisible goods**, with A. Saberi. In the 39th ACM Symposium on Theory of Computing [STOC], 2007.

UNDER REVISION ◇ **An $O(\log n/\log \log n)$ -Approximation Algorithm for the Asymmetric Traveling Salesman Problem**, with M. Goemans, A. Madry, S. Oveis Gharan, and A. Saberi. Under the second round of review in OPERATIONS RESEARCH.

WORKING PAPERS ◇ **Online Resource Allocation with Limited Flexibility**, with Xuan Wang and Jiawei Zhang.

◇ **Concise Bid Optimization Strategies with Multiple Budget Constraints**, with M. Bateni, K. Bhawalkar, and V. Mirrokni. (Preliminary version appeared in WINE 2014).

◇ **Bundle Size Pricing**, with Tarek Abdallah and Josh Reed.

◇ **Revenue Management with Bundles**, with Tarek Abdallah and Josh Reed.

◇ **Gamma Analysis: A Study on Online Stochastic Optimization.**

◇ **Incorporating Correlation in Rounding LP Relaxations.**

◇ **Two-dimensional (Frictional) Matching Markets: Equilibrium, Homophily and Mixing**, with D. Acemoglu, C. Borgs, J. Chayes, and A. Saberi.