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RESEARCH INTERESTS	◇ Applications: Online Advertising, Online Retailing, Advertising in Social Networks, Matching and Search Markets, Revenue Management
	◇ Methodologies: Mathematical Programming, Stochastic Optimization, Online Optimization
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.
PROFESSIONAL EXPERIENCE	◇ **Assistant Professor of Information, Operations & Management Sciences** · **New York University - Stern School of Business** September 2011–present.
	◇ **Teaching Experience**: · **NYU Stern**: *Decision Models & Analytics*, Undergraduate, 2011–present. · **NYU Stern**: *Decision Models & Analytics*, 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.
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.
	◇ Silver Medal, 9th and 10th Iranian National Olympiad in Informatics, Summer 1999 and 2000.
PH.D. ADVISEES	◇ **Xuan Wang,** Ph.D. completion: 2016. Asst. Prof. of Operations Management, HKUST.
	◇ **Tarek Abdallah,** Ph.D. completion: 2018. Asst. Prof. of Operations Management, Kellogg School of Management (starting Fall 2018).
ORGANIZER	◇ **NYCE 2014:** Seventh annual New York Computer Science and Economics Day.
PATENTS	◇ **Layerable Auction Mechanisms**, with D. Abraham and K. Jain. US20090313126A1.
SELECTED INVITED TALKS	◇ **Concise Bid Optimization.** The University of Chicago Booth School of Business, November 2017. Rutgers Business School, November 2017. Northwestern University Kellogg School of Management, November 2017. Columbia Business School, November 2017. Princeton University Operations Research and Financial Engineering, October 2017. Yale School of Management, September 2017.

◇ **Online Resource Allocation with Limited Flexibility.**
Duke University's Fuqua School of Business, April 2016.
Columbia Business School, April 2016.

◇ **Maximizing Stochastic Monotone Submodular Functions.**
MIT Sloan School of Management, April 2013.

◇ **Rounding by sampling: an O(log n/log log n)–approximation algorithm for ATSP.**
21st International Symposium of Mathematical Programming (ISMP), Berlin, August 2012.
Microsoft Research New England, January 2010.

◇ **The Inefficiency Ratio of Stable Equilibria in Congestion Games.**
20th International Symposium of Mathematical Programming (ISMP), Chicago, August 2009.

◇ **Max-min Fair Allocation of Indivisible Goods.**
IBM Almaden Research Center, May 2008.
Microsoft Research Redmond, March 2007.

Journal Publications (Accepted and Under Review)

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

◇ **Large-Scale Bundle Size Pricing: A Theoretical Analysis**, with Tarek Abdallah and Josh Reed. Under Review.

◇ **Online Resource Allocation with Limited Flexibility**, with X. Wang and J. Zhang. Minor Revision in Management Science.

◇ **Concise Bid Optimization Strategies with Multiple Budget Constraints**, with M. Bateni, K. Bhawalkar, and V. Mirrokni. Forthcoming, Management Science.

◇ **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. Operations Research, 2017.

◇ **Maximizing Stochastic Monotone Submodular Functions**, with H. Nazerzadeh, Management Science, 2016.

◇ **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.

Peer-Reviewed 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.

⬦ **Ranking Assortment of Products: Optimization and Learning.**

⬦ **Revenue Management with Bundles**, with T. Abdallah and J. Reed.

⬦ **A New Approximation Algorithm for Online Stochastic Matching,** with A. Saberi.

⬦ **Correlation Decay in Entropy Rounding of LP Relaxations**.

⬦ **Two-sided Online Stochastic Matching,** with A. Saberi.

⬦ **A Supply-Demand Framework for Matching Markets: Equilibrium, Homophily and Mixing**, with D. Acemoglu, C. Borgs, J. Chayes, and A. Saberi.