

Soheil Behnezhad

Department of Computer Science
University of Maryland
Rm 3264 A.V. Williams Building
College Park, MD USA 20742

soheil@cs.umd.edu
<http://www.behnezhad.com>
+1 240 643 0705
Last update: Sep 2017

Education

- **Ph.D. in Computer Science**, Feb 2016 - present
University of Maryland, Department of Computer Science
 - Advisor: Prof. MohammadTaghi Hajiaghayi
 - Coursework: Randomized Algorithms, Computational Complexit, Computational Geometry, Machine Learning, Logic and Artificial Intelligence.
- **B.Sc. in Software Engineering**, Sep 2011 - Feb 2016
Sharif University of Technology, Department of Computer Engineering
 - Thesis: Graphical Colonel Blotto Games
 - Thesis supervisor: Prof. Mohammad Ghodsi

Research Interests

- I am primarily interested in algorithmic game theory and algorithms for massive datasets.

Conference Papers

- *Winning Strategies of Blotto and Auditing Games*
S. Behnezhad, A. Blum, M. Derakhshan, M.T. Hajiaghayi, M. Mahdian, C. Papadimitriou, R. Rivest, S. Seddighin, P. Stark
To appear at **SODA 2018**
- *Affinity Clustering: Hierarchical Clustering at Scale*
M.H. Bateni, S. Behnezhad, M. Derakhshan, M.T. Hajiaghayi, R. Kiveris, S. Lattanzi, V. Mirrokni
31st Annual Conference on Neural Information Processing Systems, **NIPS 2017**
- *A Polynomial Time Algorithm For Spatio-Temporal Security Games*
S. Behnezhad, M. Derakhshan, M.T. Hajiaghayi, A. Slivkins.
18th ACM conference on Economics and Computation, **EC 2017**
- *Brief Announcement: Graph Matching in Massive Datasets*
S. Behnezhad, M. Derakhshan, H. Esfandiari, E. Tan, H. Yami.
29th ACM Symposium on Parallelism in Algorithms and Architectures, **SPAA 2017**
- *Faster and Simpler Algorithm for Optimal Strategies of Blotto Game*
S. Behnezhad, S. Dehghani, M. Derakhshan, S. Seddighin, M.T. Hajiaghayi.
31st AAAI Conference on Artificial Intelligence, **AAAI 2017**

Industry Experience

- **Summer internship at Upwork Research, Mountain View** May-August 2017
Mentor: Nima Reyhani
Upwork, is a global freelancing platform where independent professionals are connected to businesses. I worked closely with research and data science teams and my main responsibility was to improve the core *matching*

algorithm. That is, *what is the best way of matching freelancers to the business* while taking into account the inherent uncertainty about different connections. The following manuscript summarises some of our results.

Almost Optimal Stochastic Weighted Matching With Few Queries

S. Behnezhad, N. Reyhani

<https://arxiv.org/pdf/1710.10592v2.pdf>

Honors and Awards

- Awarded University of Maryland Dean’s Fellowship. Jan 2016
Maryland, USA
- Recipient of the grant for undergraduate studies and member of National Elites Foundation. 2011 - 2015
Tehran, Iran
- Awarded as **Outstanding Student** by Sharif university’s president. Sep 2011
Tehran, Iran
- **Gold Medal** in the 19th Iraninan National **Olympiad in Informatics**. March 2010
Young Scholars Club, Tehran, Iran

Services

- **Reviewer:**
 - Conferences: SODA 2017, SPAA 2017, ICALP 2017, WINE 2017
 - Journals: Algorithmica

Teaching Experience

- **Teaching Assistant**, University of Maryland
 - Introduction to Algorithms (Spring 2016)
- **Teaching Assistant**, Sharif University of Technology
 - Data Structures and Fundamentals of Algorithms (Fall 2013, Spring 2014, Fall 2014), Design of Algorithms (Fall 2013, Fall 2014, Spring 2014), Discrete Structures (Spring 2014, Spring 2015), Fundamentals of Programming Python (Fall 2013), Modern Information Retrieval (Fall 2014), Web Programming (Spring 2015)
- **Teaching in High Schools**
Prepared students for Olympiad in Informatics. Topics included Algorithms, Graph Theory, Problem Solving Strategies, and Programming.