

EHSAN EMAMJOMEH-ZADEH

Department of Computer Science
University of Southern California
Los Angeles, CA 90089, United States

emamjome@usc.edu
ehsan7069@gmail.com
<http://www-scf.usc.edu/~emamjome/>
Last Update: Mar. 25, 2018

RESEARCH INTERESTS ◇ Algorithms and Complexity
 ◇ Learning Theory
 ◇ Game Theory

EDUCATION ◇ **Ph.D. Candidate in Computer Science** Aug. 2013 – May 2019 (expected)
 Department of Computer Science
 University of Southern California (USC), Los Angeles, United States
 SUPERVISORS: David Kempe and Shaddin Dughmi
 ◇ **B.Sc. Degree in Computer Engineering** Sept. 2009 – June 2013
 Department of Computer Engineering
 Sharif University of Technology, Tehran, Iran

SELECT PUBLICATIONS ◇ **Adaptive Hierarchical Clustering Using Ordinal Queries** **SODA'18**
 Ehsan Emamjomeh-Zadeh, David Kempe. In *the 29th ACM-SIAM Symposium on Discrete Algorithms*,
 New Orleans, Louisiana, United States, Jan. 2018.
 ◇ **A General Framework for Robust Interactive Learning** **NIPS'17**
 Ehsan Emamjomeh-Zadeh, David Kempe. In *the 31st Annual Conference on Neural Information Pro-*
 cessing Systems, Long Beach, California, United States, Dec. 2017.
 ◇ **Deterministic and Probabilistic Binary Search in Graphs** **STOC'16**
 Ehsan Emamjomeh-Zadeh, David Kempe, Vikrant Singhal. In *the 48th Annual Symposium on the*
 Theory of Computing, Cambridge, Massachusetts, United States, June 2016.
 ◇ **Mixture Selection, Mechanism Design, and Signaling** **FOCS'15**
 Yu Cheng, Ho Yee Cheung, Shaddin Dughmi, Ehsan Emamjomeh-Zadeh, Li Han, Shang-Hua Teng. In
 the 56th IEEE Symposium on Foundations of Computer Science, Berkeley, California, United States,
 Oct. 2015.
 ◇ **On the Rectangle Escape Problem** **CCCG'13**
 Sepehr Assadi, Ehsan Emamjomeh-Zadeh, Sadra Yazdanbod, Hamid Zarrabi-Zadeh. In *the 25th Cana-*
 dian Conference on Computational Geometry, Waterloo, Ontario, Canada, Aug. 2013.
 ◇ **The Minimum Vulnerability Problem** **ISAAC'12**
 Sepehr Assadi, Ehsan Emamjomeh-Zadeh, Ashkan Norouzi-Fard, Sadra Yazdanbod, Hamid Zarrabi-
 Zadeh. In *proceedings of the 23rd International Symposium on Algorithms and Computation*, invited to
 special issue on Algorithms and Computation, Taipei, Taiwan, Dec. 2012.

HONORS AND AWARDS ◇ **Honorable Diploma** Aug. 2008
 From the *International Summer Conference of Tournament of Towns*, Moscow, Russia. For research on
 CIS graphs and establishing the correspondence between games with complete information and π -free
 and Δ -free graphs.
 ◇ **Silver Medal** Spring 2008
 In the 17th *Iranian National Olympiad in Informatics*.

- PRESENTATIONS ◇ **A General Framework for Robust Interactive Learning** Dec. 2017
 In *the 31st Annual Conference on Neural Information Processing Systems (NIPS'17)*.
- ◇ **Deterministic and Probabilistic Binary Search in Graphs** June 2016
 In *the 48th Annual Symposium on the Theory of Computing (STOC'16)*.
- ◇ **Deterministic and Probabilistic Binary Search in Graphs** Nov. 2015
 In *Southern California Theory Day*.
- ◇ **Identifying a Target using Vertex Queries** Mar. 2014
 In *the Annual Computer Science Research Review*, Computer Science department at the University of Southern California. Awarded as *the Most Popular Poster*.
- ◇ **The Minimum Vulnerability Problem** Dec. 2012
 In *the 23rd International Symposium on Algorithms and Computation (ISAAC'12)*, Session 5B (Approximation Algorithms), Taipei, Taiwan.

- TEACHING EXPERIENCE ◇ **Teaching Assistance**
- In University of Southern California; for the following courses:
- Advanced Analysis of Algorithms Fall 2014, Fall 2017, Spring 2018
 - Machine Learning Theory Spring 2017
 - Introduction to Algorithms and the Theory of Computing Spring 2016
- In Sharif University of Technology; for the following courses:
- Design and Analysis of Algorithms Fall 2012
 - Theory of Machine Languages and Automata Fall 2011, Spring 2012, Fall 2012
 - Compiler Design Fall 2012
 - Discrete Mathematics Spring 2012
 - Fundamentals of Programming (Python/C) Fall 2011
 - Data Structures and Introduction to Algorithms Spring 2011
- ◇ **Teaching Special Topics in Mathematics** 2010 – 2013
 Teaching high-school students who were preparing for Olympiad in Informatics. Topics included *Algorithms, Graph Theory, Problem Solving Strategies*, and *Programming*.

- WORKING EXPERIENCE ◇ **Summer Internship** Summer 2016
 Google Inc., Mountain View, California, United States.
- ◇ **Summer Internship** Summer 2011
 Department of Information Engineering, Chinese University of Hong Kong, Hong Kong.