

# EHSAN EMAMJOMEH-ZADEH

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

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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

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SELECT PUBLICATIONS     ◇ **Adaptive Hierarchical Clustering Using Ordinal Queries**     **SODA'18**  
                                 Ehsan Emamjomeh-Zadeh, David Kempe. In *the 29th ACM-SIAM Symposium on Discrete Algorithms*,  
                                 To appear, 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*, To appear, 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.

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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  $\pi$ -free  
                                 and  $\Delta$ -free graphs.  
                         ◇ **Silver Medal**     Spring 2008  
                                 In the 17th *Iranian National Olympiad in Informatics*.

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- 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.*
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- TEACHING EXPERIENCE
- ◇ **Teaching Assistance**  
 In University of Southern California; for the following courses:
    - Advanced Analysis of Algorithms Fall 2017
    - Machine Learning Theory Spring 2017
    - Introduction to Algorithms and the Theory of Computing Spring 2016
    - Advanced Analysis of Algorithms Fall 2014
  - 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.*
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- 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.