

EHSAN EMAMJOMEH-ZADEH

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RESEARCH INTERESTS ◇ Algorithms and Complexity
 ◇ Online Learning

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 ◇ **CAMS Prize** May 2018
 USC Graduate student prize for excellence in research with substantial mathematical component.
 ◇ **Silver Medal** Spring 2008
 In the 17th *Iranian National Olympiad in Informatics*.

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- PRESENTATIONS
- ◇ **Adaptive Hierarchical Clustering Using Ordinal Queries** Jan. 2018
In the 29th ACM-SIAM Symposium on Discrete Algorithms SODA'18.
 - ◇ **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 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.**

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- WORKING EXPERIENCE
- ◇ **Summer Internship (Research)** Summer 2018
 Google LLC, New York, New York, United States.
 - ◇ **Summer Internship (Software Engineering)** Summer 2016
 Google Inc., Mountain View, California, United States.
 - ◇ **Summer Internship** Summer 2011
 Department of Information Engineering, Chinese University of Hong Kong, Hong Kong.