

Soroush Ebadian

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EDUCATION

- **Ph.D. in Computer Science** Sep. 2020 – Present
University of Toronto, Toronto, Canada
Advisor: [Prof. Nisarg Shah](#) CGPA: 4+/4
- **B.Sc. in Computer Engineering** Sep. 2015 – Aug. 2020
Sharif University of Technology, Tehran, Iran CGPA: 18.68/20
Thesis: *A Simple Randomized Algorithm for All Nearest Neighbors*

PUBLICATIONS

- C1. **Soroush Ebadian**, Anson Kahng, Dominik Peters, and Nisarg Shah, “[Optimized Distortion and Proportional Fairness in Voting](#),” 2022. *Proceedings of the 23rd ACM Conference on Economics and Computation (EC’22)*.
- C2. **Soroush Ebadian**, Rupert Freeman, and Nisarg Shah, “[Efficient Resource Allocation with Secretive Agents](#),” in *Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI’22)*, 2022.
- C3. **Soroush Ebadian**, Dominik Peters, and Nisarg Shah, “[How to Fairly Allocate Easy and Difficult Chores](#),” in *Proceedings of the 21st International Conference on Autonomous Agents and MultiAgent Systems (AAMAS’22)*, 2022.
- C4. **Soroush Ebadian** and Xin Huang, “[Fast Algorithm for \$k\$ -Truss Discovery on Public-Private Graphs](#),” in *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI’19)*, 2019.
- C5. **Soroush Ebadian** and Hamid Zarrabi-Zadeh, “[A Simple Randomized Algorithm for All Nearest Neighbors](#),” in *Proceedings of the 31st Canadian Conference on Computational Geometry (CCCG’19)*, 2019.
 - Invited to the special issue of journal of **Computational Geometry**.

UNDERGRADUATE RESEARCH EXPERIENCE

- **Research Intern, IST Austria** Summer 2019
Worked on a concurrent program verification language under the supervision of [Prof. Thomas A. Henzinger](#).
- **Research Assistant, Sharif University of Technology** 2019 – 2020
Worked on the nearest neighbor search problem under the supervision of [Prof. Hamid Zarrabi-Zadeh](#).
- **Research Intern, Hong Kong Baptist University** 2018 – 2019
Worked on algorithms for mining dense subgraphs in large-scale graphs of [Prof. Xin Huang](#).

HONORS AND AWARDS

- Computer Science 50th Anniversary Graduate Scholarship, DCS, University of Toronto. 2021
- **Gold medal** in the 24th Iranian National Olympiad in Informatics (INOI) 2014
- **2nd place** in the **ACM-ICPC** West Asia Regional Contest, Tehran, Iran. 2015
- **4th place** in the Iranian National Scientific Olympiad in Computer Science and Engineering. 2019
- Recipient of the grant for undergraduate studies from the Iranian National Elites Foundation. 2014 – 2020
For outstanding academic success.

- Recipient of Research Scholarship from the Austrian Agency for International Cooperation in Education and Research (OeAD-GmbH). Summer 2019
- **4th place** in the International IranOpen Robotics Competition in Rescue Agent Simulation League. 2013

TEACHING EXPERIENCE

- **Teaching Assistant**, CS Department, University of Toronto
 - CSC2556 Algorithms for Collective Decision Making Winter 2022
 - CSC373 Algorithm Design, Analysis and Complexity Fall 2021
 - CSC263 Data Structures and Analysis Summer 2021
 - CSC303 Social and Economics Networks Winter 2021
- **Teaching Assistant**, CE Department, Sharif University of Technology
 - Design and Analysis of Algorithms Fall 2017, 2018, 2019
 - Discrete Structures Spring 2019
 - Algorithmic Game Theory Spring 2019
 - System Analysis and Design Fall 2018, Spring 2019
 - Data Structures and Algorithms Spring 2016
- **Instructor**, INOI Summer Camp 2016, 2017, and 2020
Taught advanced topics in Algorithms, Data Structures, and Algorithmic Graph Theory to students preparing for IOI.
- **Lecturer**, Allameh Helli High-School 2015 – 2016, Fall 2019
Taught Algorithms and Data Structures to students preparing for the National Olympiad in Informatics (INOI).

WORKING EXPERIENCE

- **Product Manager, CafeBazaar** Dec. 2019 – Sep. 2020
 - **Zeerak**: Led six cloud infrastructure services in three teams providing storage, database, and big data management services to tech companies with millions of users such as CafeBazaar and Divar.
- **Product Manager, CafeBazaar** Jan. 2017 – Dec. 2018
 - **Divar**: Released a multi-device access chat feature on three platforms for Divar online classified ads with 16M users.
 - **Rivers**: Released the beta version of a messaging-based team collaboration app called Rivers with a team of size 20 in Delhi and Tehran.
- **Software Engineer, CafeBazaar** April 2015 – Jan. 2017
 - **iOS Software Engineer**: Developed a buyer-seller messaging feature on iOS client of Divar with 2M iOS users.
 - **Back-end Engineer**: Scaled back-end infrastructure accepting 100M impressions per day from 25M.

OTHER ACTIVITIES

- **Task Preparation System for IOI 2017** [[Technical Report](#), [GitHub](#)] 2016 – 2017
Developed a system for preparing IOI tasks by Scientific Committee. Used at IOI 2017 and 2019.
- Member of **Scientific Committee** of Programming Contests
Designed programming contests and authored problems with an algorithmic theme.
 - West Asia ACM ICPC Regional Contest 2018 – 2019
 - Iran's IOI Team Selection Exams 2016 – 2019
 - INOI Summer Camp Programming Exams 2015 – 2017