

Mohammad Mahdavi

Department of Computer Science
University of Maryland
College Park, MD US
✉ mahdavi@umd.edu

Education

- 2023–Present **Ph.D. in Computer Science**, *University of Maryland*, College Park, MD US.
Under the supervision of Prof. MohammadTaghi Hajiaghayi
- 2018–2022 **B.Sc. in Computer Engineering**, *Sharif University of Technology*, Tehran, Iran.
GPA: 19.75/20

Research interests

- Theoretical Computer Science
- Graph Theory and Graph Algorithms
- Approximation Algorithms

Publications

- 2024 **Prize-Collecting Steiner Tree: A 1.79 Approximation**, Ali Ahmadi, Iman Gholami, MohammadTaghi Hajiaghayi, Peyman Jabbarzade, Mohammad Mahdavin, STOC 2024.
- 2024 **Regret Analysis of Repeated Delegated Choice**, MohammadTaghi Hajiaghayi, Mohammad Mahdavi, Keivan Rezaei, Suho Shin, AAAI 2024.
- 2023 **2-Approximation for Prize-Collecting Steiner Forest**, Ali Ahmadi, Iman Gholami, MohammadTaghi Hajiaghayi, Peyman Jabbarzade, Mohammad Mahdavin, SODA 2024.
- 2021 **Polynomial Reachability Witnesses via Stellensätze**, Ali Asadi, Krishnendu Chatterjee, Hongfei Fu, Amir Kafshdar Goharshady, Mohammad Mahdavi, PLDI 2021.

Undergraduate Research Experience

- Jul. 2021 – **Summer@EPFL Internship**, EPFL.
Sept. 2021 Focused on approximation algorithms for explainable clustering and online matching
Supervisor: Dr. Ola Svensson, Associate Professor, EPFL
- Jan. 2021 – **Research Assistant**, Sharif University of Technology.
June 2021 Focused on approximation algorithms for online stochastic matching
Supervisor: Dr. Masoud Seddighin
- Jul. 2020 – **Student Summer Research Program**, The Chinese University of Hong Kong.
Sept. 2020 Focused on coded computation
Supervisor: Dr. Pascal Vontobel, Associate Professor, The Chinese University of Hong Kong
- Apr. 2020 – **Online Research Internship**, IST Austria.
Jul. 2020 Focused on verification and analysis of programs
Supervisor: Dr. Krishnendu Chatterjee, Professor, Institute of Science and Technology Austria

Honors and Awards

- 2023 3rd Place at ICPC North America Championship 2023
- 2018 Gold Medal at International Olympiad in Informatics 2018
- 2018 3rd Place at Tehran Regional ICPC 2018
- 2018 Bronze Medal at Asia Pacific Informatics Olympiad 2018
- 2017 Gold Medal at Iran National Olympiad in Informatics
- 2016 Bronze Medal at Iran National Olympiad in Informatics

Teaching Assistance Experience

Game Theory	<i>Fall 2023</i>
Programming Languages	<i>Spring 2023</i>
Discrete Structures	<i>Spring 2020, Spring 2021</i>
Design of Algorithms	<i>Spring 2020, Fall 2020</i>
Data Structures	<i>Fall 2020</i>
Compiler Design	<i>Fall 2020</i>
Linear Algebra	<i>Spring 2020</i>
Advanced Programming	<i>Spring 2019, Fall 2019</i>