Rojin Rezvan

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Research Interests

- Mechanism Design
- Algorithmic Game Theory
- Approximation & Online Algorithms
- Combinatorial Optimization
- Algorithmic Fairness
- Graph Theory

Education

2021-present	**Ph.D. in Computer Science**, *University of Texas at Austin.*
	Advised by Prof. Shuchi Chawla
2019-2021	**M.SC. in Computer Science**, *University of Wisconsin Madison.*
	Advised by Prof. Shuchi Chawla
2014-2019	**B.C. in Computer Engineering**, *Sharif University of Technology.*
Summer 2013	**Official Preparation School for National Mathematics Olympiad**, *Young Scholars Club.*

Publications

- **A Multi-Dimensional Online Contention Resolution Scheme for Revenue Maximization**
  SODA 2025, with Shuchi Chawla, Dimitrios Christou, Trung Dang, Zhiyi Huang and Gregory Kehne
- **Buy-many Mechanisms for Many Unit-demand Buyers** [Best paper award]
  WINE 2023, with Shuchi Chawla, Yifeng Teng and Christos Tzamos
- **Prophet Secretary Against the Online Optimal**
  EC 2023, with Paul Duetting, Evangelia Gergatsouli, Yifeng Teng and Alexandros Tsigonias-Dimitriadis
- **Pricing Ordered Items**
  STOC 2022, with Shuchi Chawla, Yifeng Teng and Christos Tzamos
- **Individually-Fair Auctions for Multi-Slot Sponsored Search** [Best student paper award]
  FORC 2022, with Shuchi Chawla and Nathaniel Sauerberg
- **Almost Envy-free Allocations for Restricted Additive Valuations**
  IJCAI 2022, with Hannaneh Akrami and Masoud Seddighin
- **Parameterized Verification under TSO is PSPACE-Complete**
  POPL 2020, with Parosh Aziz-Abdulla and Mohamed Faouzi Atig
- **Reliability Maximization in Uncertain Graphs**
  ICDE 2021, with Xiangyu Ke, Arijit Khan and Mohammad Al Hasan
- **Reliability Maximization in Uncertain Graphs**
  IEEE Transactions on Knowledge and Data Engineering, with Xiangyu Ke, Arijit Khan and Mohammad Al Hasan

Internships

Fall 2022	**Google Research, Market Algorithms** , Student Researcher
	Mountain View, USA.
April 2022	**DIMACS Institute**, Visiting Scholar
Summer 2018	**IIT Delhi, India**, Research Intern.
	Supervised by Prof. Naveen Garg
2017-2018	**Uppsala University, Sweden**, Research Intern.
	Supervised by Prof. Parish Aziz-Abdulla
Summer 2016	**NTU, Singapore,** Research Intern.
	Supervised by Prof. Arijit Khan

Honors and Awards

- **Best paper award**, WINE 2023
- **Best student paper award**, FORC 2022
- **Silver Medal** in National Mathematics Olympiad, September 2013
- Recipient of **Grant for undergraduate studies** from the Iranian National Elites Foundation, for outstanding academic success, 2014-2015

Teaching Assistant

University of Texas at Austin:
Algorithms and Complexity, Principles of Machine Learning (Fall 2023), Approxmation Algorithms and Complexity (Fall 2021)
University of Wisconsin Madison
Introduction to Design of Algorithms (Spring 2020), Discrete Mathematics (Fall 2019)

Working Experience and Services

Program Committee
WINE24, AAAI-25 Workshop on Privacy-Preserving Artificial Intelligence
Reviewer
MOR24, SODA24,STOC23, ESA23, ITCS22,AAAI22, WINE22, TEAC20, WINE20
Collaboration with Mathematics Olympiad Committee
Grader for team selection tests for internation mathematics Olympiad
Iranian Geometry Olympiad
Participated in organization of 3rd Iranian Geometry Olympiad

Related Course

- Approximation and Online Algorithms
- Advanced Learning Theory
- Advanced Algorithms
- Algorithmic Game Theory
- Nonlinear Optimization
- Randomized Algorithms
- Computational Learning Theory

Computer Skills

Programming Languages: C/C++, Java, Python, HTML, Linux, Matlab