

Behzad Nabavi

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EDUCATION

Sharif University of Technology

Bachelor of Computer Engineering; Cumulative GPA: 18.97/20.00

Tehran, Iran

Sep. 2020 - Present

Allameh Helli Pasdaran High School

Affiliated with National Organization for Development of Exceptional Talents (NODET)

Diploma in Mathematics and Physics; GPA: 19.60/20.00

Tehran, Iran

Sep. 2017 - Sep. 2020

RESEARCH INTERESTS

- Computational Social Choice
- Mechanism Design
- Network Science
- Algorithmic Game Theory
- Auction Theory
- Learning-augmented Algorithms

RESEARCH EXPERIENCE

Sharif University of Technology

Sep. 2024 - Present

Research Intern under the supervision of Prof. Hamid R. Rabiee

- Worked in the Data Science and Machine Learning Lab (DML) on debiasing LLMs for fact-checking through democratic and republican perspectives and achieving fairness.

Tehran Institute for Advanced Studies (TEIAS)

Sep. 2023 - Present

Research Intern under the supervision of Prof. Masoud Seddighin

- Collaborated with Golnoosh Shahkarami from the Max-Planck Institute (MPI) to address the metric distortion problem through the learning-augmented framework and improved the consistency-robustness trade-off for the randomized voting rules.

University of Michigan

Jun. 2023 - Nov. 2023

Research Intern under the supervision of Prof. Grant Schoenebeck

- Worked on modeling the conference peer review process as a Stackelberg game, analyzing and comparing different conference designs using key metrics such as review burden, conference value, and average author utility. This work resulted in the paper 'Conference Design with Strategic Authors,' currently under preparation for submission to NeurIPS 2024.

Institute for Research in Fundamental Sciences (IPM)

Jun. 2023 - Sep. 2023

Research Assistant

- Assisted Prof. Samira Hossein Ghorban in developing lecture notes for the Game Theory course, conducted research and literature reviews to ensure the accuracy and comprehensiveness of the lecture notes.

HONORS & AWARDS

Nationwide University Entrance Exam

Aug. 2020

Mathematics & Physics, Ranked 206th (Among +155,000)

Iranian National Physics Olympiad

Aug. 2019

Bronze Medal

TEACHING EXPERIENCE

Numerical Computation, Instructor: Prof. Samira Hossein Ghorban

Fall 2023, Fall 2024

Teaching Assistant

Scientific and Technical Presentation, Instructor: Prof. Shohreh Kasaei

Spring 2024, Fall 2024

Teaching Assistant

Algorithmic Game Theory, Instructor: Prof. Masoud Seddighin

Spring 2023, Spring 2024

Head Teaching Assistant of Coding Assignment

- Created video lectures for Linear Programming workshop.
- Collaborated on course projects' desing and implementation.
- Held quizzes and graded the papers.

Machine Learning, Instructor: Prof. Fatemeh Seyyedsalehi

Spring 2024

Teaching Assistant

Game Theory, Instructor: Marzie Nilipour

Spring 2023

Teaching Assistant

Compiler Design, Instructor: Samaneh Hosseinmardi

Spring 2023

Teaching Assistant

Probability & Statistics, Instructor: Prof. Ali Sharifi-Zarchi
Teaching Assistant

Fall 2022

Fundamentals of Programming, Instructor: Alireza A. Mohammadi
Teaching Assistant

Spring 2022

RELEVANT COURSEWORK

- Game Theory (Coursera)
- Algorithmic Game Theory (Stanford CS364A, online, audited)
- Algorithms Design (18.2/20)
- Artificial Intelligence (20/20)
- Convex Optimization (18.8/20)
- Fundamentals of Economics (20/20)
- Advanced Programming (20/20)

WORK EXPERIENCE

Cafe Bazaar

Software Engineer

Tehran, Iran

Jul. 2022 - Jan. 2023

- Worked in one of the largest tech companies in Iran as a software engineer, developed an online wallet and payment system used by Bazaar App Store, which provides service to thousands of users.

Allameh Helli Pasharan High School

Head of Physics Olympiad Department

Tehran, Iran

Sep. 2020 - Sep. 2021

- Instructed Calculus and Electrodynamics and prepared talented high school students for participating in National Physics Olympiad.

OTHER EXPERIENCES

8th Winter Seminar Series in Advanced Topics of Computer Science

Executive Staff

Feb. 2023 - Apr. 2023

AI Challenge

Marketing & Executive Staff

Feb. 2022 - Aug. 2022

7th Winter Seminar Series in Advanced Topics of Computer Science

Media & Executive Staff

Dec. 2021 - Feb. 2022

Cultural Studies Group

Committee Member

Dec. 2021 - Present

Rayanesh (Department's Journal)

Committee Member

Nov. 2021 - Present

PROJECTS

MIPS CPU: Implemented MIPS ISA with Verilog programming language for Computer Architecture project.

Graph Clustering: Implemented graph clustering with Python programming language for Linear Algebra project.

Crypto Alert: Implemented Cryptocurrency Alert System with Java programming language.

Yu-Gi-Oh!: Replicated Yu-Gi-Oh! card game with Java programming language for Advanced Programming project.

SKILLS

Programming Languages: Python, Java, C/C++, R, Go, Verilog, MIPS Assembly

Tools: Docker, Kubernetes, Grafana, L^AT_EX, Version Control

Languages: Persian, English