

Donya Jafari

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EDUCATION

University of Toronto

PhD in Operations Research

- Supervisor: Prof. Peyman Mohajerin Esfahani

Toronto, Canada

Sept. 2026 – Present

Sharif University of Technology

BSc in Computer Engineering; GPA: 18.82/20

Tehran, Iran

Sept. 2022 – July 2026

Farzanegan High School (SAMPAD)

Applied Mathematics and Physics; GPA: 19.97/20

Tehran, Iran

Sept. 2019 – July 2022

RESEARCH INTERESTS

Machine Learning, Multi-Armed Bandits, Online Learning, Reinforcement Learning, and Optimization

PUBLICATIONS

DAK-UCB: Diversity-Aware Prompt Routing for LLMs and Generative Models

2026

International Conference on Learning Representations (ICLR)

- **Donya Jafari** and Farzan Farnia

RESEARCH EXPERIENCE

AlphaBrain

Research Intern

- Studied optimal transport using inverse optimization techniques.
- Supervised by Prof. Angelos Georgioudis and Prof. Peyman Mohajerin Esfahani.

Maastricht, Netherlands

Apr. 2026 – Aug. 2026

Adversarial Attacks on Logged Bandits

Bachelor's Thesis

- Supervised by Dr. Amir Najafi.

Tehran, Iran

Oct. 2025 – Mar. 2026

Research Project on Recommender Systems

Undergraduate Research Collaborator

- Supervised by Prof. Vahideh Manshadi (Yale University) and Prof. Negin Golrezaei (MIT).

Remote

Mar. 2025 – Sept. 2025

Research Project on Multi-Armed Bandit Algorithms

Undergraduate Researcher, The Chinese University of Hong Kong

- Supervised by Prof. Farzan Farnia.

Remote

Feb. 2025 – Aug. 2025

Real-Image Inpainting with Diffusion Models

Research Assistant, DML Lab

- Supervised by Prof. Hamid R. Rabiee.

Tehran, Iran

July 2024 – Apr. 2025

Quera

Machine Learning Intern

- Applied data analysis to real-world problems.
- Implemented deep learning architectures for a range of applied tasks.

Tehran, Iran

Apr. 2024 – July 2024

TEACHING EXPERIENCE

University of Toronto

Head Teaching Assistant, MIE370: Introduction to Machine Learning

- Coordinate the teaching assistant team and lead tutorial sessions.

Toronto, Canada

Sept. 2026 – Present

Sharif University of Technology

Teaching Assistant

- Probability and Statistics (Project Head Teaching Assistant)
- Numerical Computation
- Artificial Intelligence
- Machine Learning
- Linear Algebra
- Fundamentals of Programming
- Object-Oriented Programming
- Digital Logic Design

Tehran, Iran

2023 – 2026

WORKSHOPS

Trustworthiness in Deep Learning

Lecturer: Prof. Mohammad Hossein Rohban

Aug. 2024 – Dec. 2024

Reinforcement Learning

Lecturer: Amirhossein Afsharrad

July 2023 – Sept. 2023

PHD COURSES

- **MIE1615H: Markov Decision Processes** — Department of Mechanical and Industrial Engineering, University of Toronto; taught by Prof. Peyman Mohajerin Esfahani.
- **CSC2600H: Algorithmic Social Systems** — Department of Computer Science, University of Toronto; taught by Prof. Peter Marbach.

UNDERGRADUATE COURSES

- Artificial Intelligence — Grade: 19.7/20
- Linear Algebra — Grade: 20/20
- Data Structures and Algorithms — Grade: 19.1/20
- Probability and Statistics — Grade: 18.9/20
- Discrete Mathematics — Grade: 19.1/20
- Differential Equations — Grade: 20/20
- General Mathematics 2 — Grade: 17.5/20
- Object-Oriented Programming — Grade: 20/20 — Course Project: Uber Eats
- General Mathematics 1 — Grade: 19.5/20
- Fundamentals of Programming — Grade: 20/20 — Course Project: Jungle Marble Blast Game
- Theory of Machines and Languages — Grade: 17.5/20
- Numerical Computation — Grade: 19.3/20
- Machine Learning — Grade: 20/20
- Algorithm Design — Grade: 18.7/20
- Convex Optimization — Grade: 18.4/20
- Game Theory — Grade: 20/20
- Compiler Design — Grade: 20/20
- Computer Simulation — Grade: 18.4/20
- Signals and Systems — Grade: 20/20
- Stochastic Processes — Grade: 19.5/20

LANGUAGE PROFICIENCY

Persian: Native | English: C1 (IELTS Academic: 8.0) | Dutch: Elementary proficiency (A2)

SKILLS & INTERESTS

Technical Skills: Python, PyTorch, Java, C++, Linux, LaTeX, Git, and GitHub

Interests: Swimming, learning Dutch, chess, and guitar