# Parham Mohammad Panahi

panahiparham.github.io • parham1@ualberta.ca • Github • LinkedIn 780-937-1410
Edmonton Alberta Canada

### **Research Interests**

Model-Based Reinforcement Learning • Sample Efficiency • Temporal Abstraction

### Education

2022 – Present University of Alberta – Edmonton, Canada

M.Sc. in Computing Science (GPA: 4.0/4.0)

Advisor: Adam White

Research Topic: Reinforcement Learning

2016 – 2021 **Azad University** – Tehran, Iran

B.Sc. in Computer Science (GPA: 18.71/20.0)

Mentors: Mohammad Ali Fariborzi Araghi, Amin Mahmoodi.

#### **Selected Coursework**

- *University of Alberta*: Reinforcement Learning 2, Reinforcement Learning 1, Procedural Content Generation via Machine Learning.
- *Azad University*: Analysis of Algorithms, Theory of Computation, Real Analysis, Abstract Algebra, Probability Theory, Linear Algebra, Computer Simulation

# Honors and Scholarships

2023	Admitted to the DLRL2023 Summer School Organized by CIFAR/MILA
2022	University of Alberta Graduate Recruitment Scholarship FALL 2022/23
2021	Rank 25 in National Mathematical Olympiad for University Students in Iran
2021	Rank 26 in National Graduate School Entrance Exam in Mathematics in Iran

## Research Experience

May 2023 - Sample Efficiency in Deep Reinforcement Learning

present Collaborators: Andrew Patterson, Adam White, Martha White

Topic: Experience Replay

Jan 2023 - Model Based Reinforcement Learning

present Collaborators: Kevin Roice, Scott Jordan, Adam White, Martha White

Topic: Planning with Option Models

Dec 2020 - Sep Audio-Visual Speech Recognition

2021 Collaborator: Shahed Mohammadi

Gathered and processed video data for visual speech recognition. Implemented a Lip

Reading System for Farsi using STCNNs and LSTMs.

**Teaching Experience** 

Fall 2022 - Teaching Assistant, CMPUT 175: Introduction to the Foundations of Com-

Winter 2023 **putation II (University of Alberta)** 

Conducted Labs to Assist and Test Students, Assignment Marking, Lab Marking, and

Helping Students during Office Hours.

Fall 2018 - Teaching Assistant, Python Programming (Azad University)

Winter 2019 Conducted Labs and gave Supplementary Lectures.

**Industry Experience** 

Nov 2021 - July Caspian Net Pars (Designer and Producer) Tehran, Iran

2022 Designed and Taught Online Courses on the Topics of Programming and Reinforce-

ment Learning.

Community

2022 - Present Computing Science Graduate Student Association, University of Alberta

Other Skills

Programming Languages: Python, Julia, C++, and many Machine Learning and

Scientific Computing Packages, Including, Torch, TensorFlow, and Jax.

Languages: English, Farsi.