Parham Mohammad Panahi

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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: 3.93/4.0)
Advisor: Mohammad Ali Fariborzi Araghi

Publications

Mar 2024 **Investigating the Interplay of Prioritized Replay and Generalization**
Parham Mohammad Panahi, Andrew Patterson, Martha White, Adam White

Mar 2024 **Forager: a light-weight testbed for never-ending reinforcement learning**
Anna Hakhverdyan, **Parham Mohammad Panahi**, Andrew Patterson, Jiamin He,
Esraa Elelimy, Martha White, Adam White

Jan 2024 **Tuning for the Unknown: Revisiting Evaluation Strategies for Lifelong RL**
Golnaz Mesbahi, Olya Mastikhina, **Parham Mohammad Panahi**, Martha White,
Adam White

Jan 2024 **Goal-Space Planning With Subgoal Models**
*Chunlok Lo, *Kevin Roice, ***Parham Mohammad Panahi**, Scott Jordan, Adam
White, Gabor Mihucz, Farzane Aminmansour, Martha White

Experience

Sept 2022 – Present **Graduate Student** University of Alberta
My research goal is to create sample efficient reinforcement learning methods that
can adapt to a changing environment.

Sept 2023 – Present **AI Career Accelerator Program Participant** Amii
Contributed through 100 hours+ of work-integrated learning and collaboration with
Adam White and Alona Fyshe and amii's training team to create AI Everywhere, an
introductory AI course for all students at University of Alberta.

Sept 2022 – Apr 2023	**Teaching Assistant** University of Alberta Course: CMPUT 175 - Introduction to the Foundations of Computation II Conducted Labs to assist and test students, Marked Labs and Assignments, helped students during Office Hours.
Nov 2021 – July 2022	**Content Creator** Caspian Net Pars Designed and Produced Online Courses on Programming and Machine Learning.
Dec 2020 – Sep 2021	**Research Assistant** Azad University Implemented a Deep Learning Audio/Visual Speech Recognition system for Farsi.
Sept 2018 – Apr 2019	**Teaching Assistant** Azad University Course: Introductory and Advanced Programming Conducted Labs and gave supplementary lectures on Programming Paradigms.

Selected Course Projects

Fall 2022	**Average Reward Methods in Continuing Control** Empirical study of differential Q-learning on continuing Catch and Pendulum tasks. Instructor: Adam White · Project Report
Fall 2022	**Novel Content Generation with Machine Learning** Controlling generation of blended content via genetic algorithm and VQ-VAEs. Instructor: Matthew Guzdial · Project Report

Honors and Scholarships

2023	University of Alberta FGSR Graduate Travel Award 2023 - 2024
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

Other Skills

Programming Languages: Python, Julia, C++, and many Machine Learning and Scientific Computing Packages, including Torch, TensorFlow, and Jax.

Languages: English (IELTS band 8), Farsi (native).