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Research Interests

Reinforcement Learning, Representation Learning, Continual Learning, Model-Based RL, and Machine Learning.

Education

Master of Science in Computing Science 2022 - 2024

University of Alberta, Edmonton, Alberta, Canada

Advisor: [Professor Adam White](#)

Thesis: Investigating the Interplay of Prioritized Replay and Generalization

Bachelor of Science in Computer Science

2016 - 2021

Azad University, Tehran, Iran

GPA: 3.93/4.0

Publications

A star(*) beside an author name indicates equal contribution. Acceptance rate noted as a percentage, if available.

Refereed Journal and Conference Articles

[2] **Investigating the Interplay of Prioritized Replay and Generalization**. Panahi, P. M., Patterson, A., White, M., White, A.. The Reinforcement Learning Journal, 2024. (39%)

[1] **Goal-Space Planning with Subgoal Models**. *Lo, C., *Roice, K., *Panahi, P. M., Jordan, S., White, A., Mihucz, G., Aminmansour, F., White, M.. Journal of Machine Learning Research, 2024. (~17%)

Nonarchival Articles

[N2] **A New View on Planning in Online Reinforcement Learning**. *Roice, K., *Panahi, P. M., Jordan, S. M., White, A., White, M.. Planning and Reinforcement Learning Workshop at ICAPS, 2024.

[N1] **K-percent Evaluation for Lifelong RL**. Mesbahi, G., Panahi, P. M., Mastikhina, O., White, M., White, A.. Preprint, 2024.

Theses

[T1] **Investigating the Interplay of Prioritized Replay and Generalization**. Panahi, P. M., Master's Thesis, University of Alberta, 2024.

Experience

Reinforcement Learning and Artificial Intelligence Research

I have been lucky to work on reinforcement learning research in the RLAI lab for over two years. First as a **Master's Student** (Sep 2022 - Aug 2024) and now as a **Research Assistant** (Sep 2024 - Present). I have contributed to several research projects toward creating efficient and reliable learning systems capable of continual interaction and decision-making in a changing world.

Teaching and Educational Writing

During my time at the University of Alberta, I have had the opportunity to teach and mentor students. I helped run CMPUT 175 - Introduction to Computing 2 as a **Teaching Assistant** (Sep 2022, Apr 2023). Later, I helped develop INT D 161 - Artificial Intelligence Everywhere course through part-time contract with **Alberta Machine Intelligence Institute** (Aug 2023 - Dec 2023).

Honors

University of Alberta FGSR Graduate Travel Award 2023 - 2024

Admitted to the DLRL2023 Summer School Organized by CIFAR/MILA

University of Alberta Graduate Recruitment Scholarship FALL 2022/23

Rank 25 in National Mathematical Olympiad for University Students in Iran 2021

Service

Co-organizer of the RLAI Summit 2024, bringing together more than 100 graduate students and University of Alberta faculty members.

Technical Reviewer for The Reinforcement Learning Conference 2024.

Emergency Reviewer for ICLR 2025.

Skills

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

Useful Tools: Linux, HPC, Git, and Latex.

Personal Information

Citizenship: United States, Iran.

Languages: English (fluent), Farsi (native).