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Research

Reinforcement Learning, Representation Learning, Continual Learning, Model-Based RL, Optimization, 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](#) at the University of Alberta for two and a half 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 to create 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). I also contributed to development of INT D 161 – Artificial Intelligence Everywhere course as a part-time contractor for **Alberta Machine Intelligence Institute** (Aug 2023 – Dec 2023).

Honors

- University of Alberta FGSR Graduate Travel Award (2023)
- Admitted and Attended DLRL Summer School (2023)
- University of Alberta Graduate Recruitment Scholarship (2022)
- Rank 25 in Iranian Undergraduate Mathematical Olympiad (2021)

Service

- Technical Reviewer for The Reinforcement Learning Conference (2024)
- Emergency Reviewer for ICLR (2025)
- Co-organizer of the RLAI Summit Workshop (2024)

Skills

Programming: Python, Julia, C++, Numpy, Jax, PyTorch

Tools: Linux, HPC, Git, Latex

Languages: English, Farsi