

ANNA HAKHVERDYAN

📍 Anna Hakhverdyan 🌐 anna-ssi ✉ hakhverd@ualberta.ca 🌐 anna-ssi.github.io

EDUCATION

University of Alberta *Jan 2023 - Sep 2024*

M.Sc in Computing Science (GPA: 3.8 / 4.0)

Supervisor: Martha White

Thesis Title: Accounting for Hyperparameter Tuning for Online Reinforcement Learning

National Polytechnic University of Armenia *Oct 2016 - May 2021*

B.Sc in Information Technologies (GPA: 3.92 / 4.00)

PUBLICATIONS

[NeurIPS] Shushan Arakelyan, **Anna Hakhverdyan**, Miltiadis Allamanis, Christophe Hauser, Luis Antonio Garcia, Xiang Ren. NS3: Neuro-Symbolic Semantic Code Search. In *Neural Information Processing Systems*, 2022.

EMPLOYMENT

University of Alberta - RLAI Lab *Sep 2024 - Present*

Research Assistant

- Finishing up my thesis work for journal submission.
- Developing automated PID controller for a suite of process control environments.
- Working on developing environments suitable for continual learning.
- Understanding and evaluating reinforcement learning agents in curated animal learning experiments.

Magical Labs *Oct 2021 - Jul 2022*

Machine Learning Engineer

- Developed models and pipelines for autonomous vehicle control.
- Worked on compressing large neural networks with reinforcement learning agents for mobile integration.

Perpetuum Motors *Dec 2020 - Oct 2021*

Machine Learning Engineer

- Conducted research on developing an end-to-end autonomous driving pipeline for simulated games.

ForgeFiction *Dec 2018 - Jan 2020*

Software Engineer

- Developed and designed API requests and database architectures.
- Optimized the application for maximum speed and scalability.

TEACHING EXPERIENCE

CMPUT 365 / 655: Reinforcement Learning I *Sept 2023 - Dec 2023*

University of Alberta

CMPUT 174: Introduction to the Foundations of Computation I *Jan 2023 - Apr 2023*

University of Alberta

TALKS

Accounting for Hyperparameter Tuning for Online Reinforcement Learning

Openmind Continual Learning Retreat

Oct 2024

M.Sc. Thesis Seminar, University of Alberta

Sep 2024

Center for Scientific Innovation and Education (CSIE)

Jul 2024

Reinforcement Learning in NLP

Armenian NLP community

Feb 2022

Learning from Code

Machine Learning Reading Group Yerevan

March 2021

AWARDS

University of Alberta Graduate Recruitment Scholarship

University of Alberta

Jan 2023 - Apr 2023

AGBU US Scholarship

AGBU

Sep 2022 - May 2023

Excellence Academic Fellowship

National Polytechnic University of Armenia

Oct 2017 - May 2021

SKILLS

Programming: Python, Bash, Version Control, SQL, NoSQL

Libraries: Jax, Pytorch, Numpy, Pandas, sklearn, gymnasium, brax

Languages: Armenian (native), English (fluent), Russian (fluent), Japanese (N2), Korean (L4)

COMMUNITY SERVICES

ICLR 2025

Nov 2024

IMOL Workshop at NeurIPS

Oct 2023

Reviewer

RLAI Summit

Aug 2024

Co-organizer