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.

RESEARCH EXPERIENCE

University of Alberta - RLAI Lab *May 2023 - Present*
Accounting for hyperparameter tuning for online reinforcement learning
Supervisor: Martha White

University of South California *Jan 2021 - Nov 2021*
Semantic code search using neural modules
Supervisor: Xiang Ren

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

WORK EXPERIENCE

University of Alberta - RLAI Lab *Sep 2024 - Present*
Research Assistant
- Finishing up my thesis work for journal submission.
- Developing a suite of environments for process control.
- Working on developing environments suitable for Continual learning.
- Understanding and evaluating RL 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 RL 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.

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   *Jan 2023 - Apr 2023*
University of Alberta

AGBU US Scholarship   *Sep 2022 - May 2023*
AGBU

Excellence Academic Fellowship   *Oct 2017 - May 2021*
National Polytechnic University Of Armenia

SKILLS

Programming:	Python, Bash, Version Control, SQL, NoSQL
Libraries:	Jax, Pytorch, Numpy, Pandas, sklearn, gymnax, brax
Languages:	Armenian (native), English (fluent), Russian (fluent), Japanese (N2), and Korean (L4)

COMMUNITY SERVICES

RLAI Summit   *Aug 2024*
Co-organizer

IMOL Workshop at NeurIPS   *Oct 2023*
Reviewer