ANNA HAKHVERDYAN

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EDUCATION

Brown University Sep 2025 - TBD

PhD in Computer Science Supervisor: George Konidaris

University of Alberta Jan 2023 - Sep 2024

MSc in Computing Science Supervisor: Martha White

Thesis: Accounting for Hyperparameter Tuning for Online Reinforcement Learning

National Polytechnic University of Armenia

Oct 2016 - May 2021

BSc in Information Technologies Supervisor: Davit Ghazaryan

PUBLICATIONS

Peer-Reviewed Conferences and Journal

[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.

Workshops

[RLC] Anna Hakhverdyan*, Golnaz Mesbahi*, Martha White. Adaptive PID Control for Setpoint Tracking Using Reinforcement Learning: A Case Study for Blood-Glucose Control.. In RLC 2025 Workshop on Practical Insights into Reinforcement Learning for Real Systems, 2025.

EXPERIENCE

Huawei Canada May 2025 - Present

Research Intern

- Working on tuning LLM agents in online learning setting.

University of Alberta - RLAI Lab

Sep 2024 - Apr 2025

Research Assistant

- Developed RL-automated PID controller for a process control environment.
- Worked on developing environments suitable for lifelong learning.

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.

^{*} Equal contribution.

University of Southern California - INK Lab

Jan 2021 - Nov 2021

Undergraduate Research Assistant

Supervisor: Xiang Ren

- Helped to develop neural module networks with hypernetworks for semantic code search.
- Used combinatory categorial grammar (CCG) for parsing textual descriptions.

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 (Head TA)	Sept 2023 - Dec 2023
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

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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, Jax, Pytorch, Bash, Git, SQL, NoSQL
Languages:	Armenian (native), English (fluent), Russian (fluent), Japanese (N2), Korean (L4)

COMMUNITY SERVICES

RLAI Summit Aug 2024

Co-organizer

NeurIPS 2025, RLC 2025, ICLR 2025

Reviewer