

# 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 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.

## 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

---

### **RLAI Summit**

*Co-organizer*

*Aug 2024*

### **IMOL Workshop at NeurIPS**

*Reviewer*

*Oct 2023*