

EXPERIENCE

NVIDIA, *Applied Research Intern*, Santa Clara, CA **03/2026 – present**

- Working on reasoning language models in the life science domain.
- Contributed chemistry-domain training data to *Nemotron 3 Ultra*, an open-weight model (paper).

Yerevan, Armenia

05/2025 – 09/2025

- Built *SHERLOC*, a code fault localizer, state of the art on SWE-Bench Verified and Lite, raising resolve rate at lower compute (paper).

TU Darmstadt, *Doctoral Researcher*, Darmstadt, Germany**03/2023 – 02/2026**

- Teaching associate, *Introduction to LLMs*. 09/2024 – 02/2025
- Mentor, experiment tracking and reproducibility workshop. 10/2024
- Mentor, PyTorch optimization workshop. 04/2023
- Supervised four M.Sc. theses in mechanistic interpretability.
- Published *Factual Self-Awareness*, showing LLMs encode whether they will recall a fact correctly (paper).
- Published *LLM Roleplay*, a multi-agent system generating human-AI dialogues at scale (paper).
- Built *Urartu*, a framework for one-command Slurm submission and reproducible runs.

YerevaNN, *Machine Learning Researcher*, Yerevan, Armenia**09/2020 – 02/2023**

- Contributed interpretability analysis to *Chameleon*, a multimodal model, *with Meta FAIR* (paper).
- Trained *BARTSmiles*, a molecular representation model, *with Meta FAIR* (paper).
- Solved bilingual sentence alignment in low-resource settings (Master's Thesis).
- Built a machine translation system for the WMT20 Biomedical tasks (paper).

AimStack, *Machine Learning Engineer*, Yerevan, Armenia**08/2022 – 03/2024**

- Integrated Aim experiment tracking with popular ML frameworks and MLOps tools.
- Wrote 3 technical blog posts that grew community adoption.

Instituto Superior Técnico, LxMLS 2023, *Core Monitor*, Lisbon, Portugal**07/2023**

- Wrote a step-by-step guide to the transformer architecture.
- Led lab sessions for researchers, graduate students, and industry practitioners.

ZERØ, *Machine Learning Engineer*, Yerevan, Armenia**11/2021 – 03/2022**

- Shipped a legal document classification system.
- Built *tmyNLP*, the framework behind its multiclass classification pipeline.

American University of Armenia, *Teaching Associate*, Yerevan, Armenia**09/2021 – 12/2021**

- Deep Learning: taught NLP lectures and led problem sessions.
- Data Structures and Algorithms: led problem sessions and wrote assignments.

SKILLS

- **Technical:** Algorithms, Data Structures; C, Python, JavaScript; PyTorch, xFormers, FairSeq.

EDUCATION

Ph.D., *Computer Science; Technical University of Darmstadt*, Germany**03/2023 – present****M.Sc., *Computer Science; American University of Armenia***, Armenia**09/2019 – 06/2021****B.Sc., *Nuclear Physics; Yerevan State University***, Armenia**09/2015 – 05/2019**