

HOVHANNES TAMOYAN

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EDUCATION

PhD STUDENT in COMPUTER SCIENCE

TU Darmstadt / UKP Lab

2023 - Present

Research Areas: NLP, LLM Evaluation, Code Generation

Supervisor: Prof. Iryna Gurevych, Prof. Eduard Hovy

M.Sc. in COMPUTER SCIENCE

American University of Armenia

2019 - 2021

Thesis: Bilingual Sentence Alignment Using Multilingual Language Models

Supervisor: Karen Hambardzumyan

GPA: 3.77

M.Sc. in NUCLEAR PHYSICS

Yerevan State University

2019 - 2021

Thesis: Optimisation of Nonlinear Dynamics in CANDLE Storage Ring

Supervisor: Prof. Vasili Tsakanov

GPA: 3.40

B.Sc. in NUCLEAR PHYSICS PHYSICS

Yerevan State University

2015 - 2019

Thesis: The Emittance Measurement of Electron Beam for AREAL

Supervisor: Prof. Vasili Tsakanov

GPA: 4.00

TEACHING EXPERIENCE

TEACHING ASSISTANT

Instituto Superior Técnico - LxMLS 2023

2023

- Wrote the lab guide for the **Transformers Day**
- Guided researchers, graduate students, and industry practitioners for **Lab sSessions**

TEACHING ASSOCIATE

American University of Armenia

2021

- **Deep Learning**
- **Data Structures and Algorithms**

RESEARCH EXPERIENCE

MACHINE LEARNING RESEARCHER

YerevaNN

2020 - 2023

- **Multi-Modal** (text, image) models - **CM3Leon**
- **Diffusion** and **Mixture of Expert** Models for **NAG**
- Molecular representation learning - **BARTSmiles**
- **Cross-Lingual Zero-Shot transfer** using prompt-based learning
- **Bilingual Sentence Alignment** problems in low-resource setups
- **NMT** for the **WMT20** Biomedical translation task
- Created a **Parallel Sentence Preprocessing** toolkit - **parasite**

PHYSICS RESEARCHER

CANDLE SRI

2018 - 2020

- Electron beam **Emittance measurement** on the AREAL linac
- Introduced comprehensive functionality for **Beam Diagnostics**

ENGINEERING EXPERIENCE

MACHINE LEARNING ENGINEER

AimStack

2022 - 2023

- Integrated **Aim** with **ML Frameworks** and **MLOps** tools
- Enhanced the **Back-End** functionality

MACHINE LEARNING ENGINEER

ZERØ

2021 - 2022

- Researched on **Multiclass Document** classification

SENIOR SOFTWARE ENGINEER

Birthright Armenia

2018 - 2022

- Developed a large-scale **CMS** system
- Built an **Email Management System**
- **Security Improvements** for the system

SKILLS

Programming
Machine Learning

Database Systems
Operating Systems

Python, JavaScript, C
PyTorch, TensorFlow, FairSeq, AllenNLP,
PyTorch Lightning, HF Transformers
SQL, NoSQL, GraphQL
UNIX/Linux (Debian, Kali Linux)