

Angelos Poulis

Boston, MA

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Education

Boston University (BU)

Boston, MA

PH.D. IN COMPUTER SCIENCE

Sep 2024 – Present

- *Advisors:* Evimaria Terzi, Mark Crovella
- *Research interests:* Mechanistic interpretability, reasoning in language models (LMs)
- *Anticipated Graduation:* May 2029

National and Kapodistrian University of Athens (NKUA)

Athens, Greece

B.Sc. IN INFORMATICS AND TELECOMMUNICATIONS

Sep 2019 – Mar 2024

- *Major:* Computer Science, *Specialization:* Data and Knowledge Management
- *GPA:* 8.7/10 (Honors)
- *Thesis:* “Reasoning over Description Logic-based Contexts with Transformers” 📄
- *Supervisor:* Manolis Koubarakis, *Co-supervisor:* Eleni Tsalapati

Experience

Boston University

Boston, MA

GRADUATE RESEARCH ASSISTANT

Sep 2024 – Present

- Analyzing internal representations of LMs for identifying truthfulness signals in reasoning and factual-recall cases.

National and Kapodistrian University of Athens

Athens, Greece

RESEARCH INTERN, KDD LAB

Oct 2023 – Jul 2024

- Worked on the development of an automated toolkit for bias detection in ML algorithms as part of the AutoFair project.
- *Supervisor:* Dimitrios Gunopulos.

National and Kapodistrian University of Athens

Athens, Greece

UNDERGRADUATE RESEARCH STUDENT, AI TEAM

Jan 2022 – Feb 2024

- Created a synthetic 400k-example dataset for logic reasoning in natural language based on Description Logics; fine-tuned transformer LMs (DeBERTa) and evaluated GPT models in zero- and few-shot settings.
- *Supervisor:* Manolis Koubarakis.

Publications

PUBLISHED

A. Poulis, E. Tsalapati, M. Koubarakis. “Transformers in the Service of Description Logic-Based Contexts.” *EKAW 2024*.

A. Poulis, E. Tsalapati, M. Koubarakis. “Transformer-Based Language Models for Reasoning in the Description Logic \mathcal{ALCQ} .” *NeLaMKRR Workshop at KR 2024*.

POSTER PRESENTATIONS

A. Poulis, M. Crovella, E. Terzi. “Using Geometries of Truth to Identify Factual Recall in LLMs.” *NEMI Workshop 2025*.

A. Poulis, D. Tomaras, V. Kalogeraki, D. Gunopulos. “AutoFair Toolkit: An Automated Tool for Evaluating Fairness in AI/ML Models.” *EuroSys 2024 Posters Track*.

Honors and Awards

2025 **Scholarship**, Gerondelis Foundation

2025 **Scholarship**, Eleni Gatzoyiannis Foundation

Spring 2024 **Dean's Fellowship**, Department of Computer Science, BU
Fall 2024 **Non-service Chair's Award**, Department of Computer Science, BU
2024 **Best Thesis Award**, Department of Informatics and Telecoms., NKUA
2018, 2019 **Cyprus Olympiad in Informatics Finalist**, Cyprus Computer Society

Teaching Experience

Fall 2023 **Operating Systems (undergraduate class)**, Teaching Assistant
Fall 2022 **Artificial Intelligence (undergraduate class)**, Piazza Forum Assistant
Fall 2022 **Artificial Intelligence II (graduate class)**, Piazza Forum Assistant

Outreach

2020–
Present **Cyprus Olympiad in Informatics**, Scientific Committee Member
Nov 24–29,
2021 **Cyprus Olympiad in Informatics**, Team Deputy Leader

Skills / Technologies

Python • C/C++ • Java • SQL • PyTorch • scikit-learn • NumPy • Git