

THEMISTOKLIS NIKAS

Ph.D. Student in Computer Science

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EDUCATION

Boston University

Ph.D. in Computer Science

Boston, MA, USA

Sep 2023 – Present

- Advisor: Prof. Aaron Mueller.
- Research in mechanistic interpretability and meta-cognition in LLMs; current work on linguistic ambiguity and (un)answerability; prior work in graph algorithms and algorithmic fairness.

University of Ioannina

B.Sc. & M.Sc. in Computer Science & Engineering (5-year joint degree; 300 ECTS)

Ioannina, Greece

Mar 2017 – Mar 2022

- Diploma Thesis: *Fairness in Link Analysis Algorithms*.

PROFESSIONAL AND RESEARCH EXPERIENCE

Teaching Fellow

Boston University

Jan 2024 – Present

Boston, MA, USA

- Course: CS330 - Introduction to Analysis of Algorithms (Spring 2024, Fall 2024, Spring 2025, Fall 2025).
- Led discussion sections, held office hours, and helped design assignments and exams.

Research Associate

University of Ioannina & Pfizer CDI Collaboration

Feb 2023 – Aug 2023

Thessaloniki, Greece

- Developed innovative solutions for detecting healthcare-related misinformation on social media.
- Leveraged machine learning and NLP methods for large-scale data analysis and classification.

Junior Researcher

Unit of Medical Technology & Intelligent Information Systems (MedLab)

May 2022 – Jan 2023

Ioannina, Greece

- Conducted research on probabilistic and ML techniques for synthetic omics generation and virtual population analyses.
- Investigated the relationship between cardiovascular diseases and depression using big-data classification.

Diploma Thesis Research

University of Ioannina

Apr 2021 – Mar 2022

Ioannina, Greece

- Analyzed how to achieve fairness in PageRank with minimal network modifications; performed theoretical and empirical evaluations of fairness-cost tradeoffs.

Teaching Assistant

University of Ioannina

Feb 2023 – Jun 2023

Ioannina, Greece

- Assisted in teaching Object-Oriented Programming; provided support through labs, grading, and student Q&A.

PUBLICATIONS

Disentangling Text and Math in Word Problems: Evidence for the Bidimensional Structure of Large Language Models' Reasoning

Calais, P., Franco, G., Tang, Z., Nikas, T., Meira Jr., W., Terzi, E., Crovella, M. (*Findings of ACL*), 2025

Beyond Accuracy: Understanding the Performance of LLMs on Exams Designed for Humans

Calais, P., Franco, G., Nikas, T., Tang, Z., Crovella, M., Meira Jr., W., Terzi, E. (*Preprint*), 2025

Giving Voice to the Minority: Fair Opinion Formation in Social Networks

Nikas, T., Pitoura, E., Tsaparas, P. (*Under review*), 2025

- Extension of diploma thesis; explores fairness and opinion dynamics in networks.

SKILLS, LANGUAGES & VOLUNTEERING

Programming: Python, R, C/C++, Java, SQL

ML/Tools: scikit-learn, Keras, PyTorch, Matlab, Git

Languages: English (fluent), Greek (native)

Volunteering (TEDxMaviliSquare): Oversaw speaker recruitment, content direction, and workshop organization.