

Curriculum Vitae

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Research Statement

The goal of my research is to answer important questions of artificial intelligence (AI) safety field, such as questions of alignment, explainability, and trustworthiness, in order to minimize the risks associated with the inevitable implementation of AI systems in critical domains, including healthcare, physical infrastructure, and robotics.

Education

The American College of Greece, Athens, Greece

Cumulative GPA: 3.75/4.00

BSc (Hons) in Cybersecurity & Networking (expected May 2026)

Major GPA: 4.00/4.00

Coursework: *Data Mining & Big Data Analysis; AI & Machine Learning; Applied Statistics; Mathematics for Computing; Secure Software Development; Cryptography; Privacy, Policy, Law & Technology; Criminology.*

Thesis title: *COMPASS - Compliance-oriented Model Performance Assessment for Safety Standards.*

Research Experience

Research Assistant

May 2025 – Present

Laboratory of Artificial Intelligence, ACG · Advisors: Prof. I.T. Christou, Prof. N. Bakas, Prof. E. Vagianou

- Research in Explainable AI & AI Applications:
 - Explainability of convolutional neural networks (CNNs) for healthcare applications
 - Deep learning (DL) for intrusion detection systems in cybersecurity domain

Research Assistant

May 2024 – Aug 2024

Laboratory of Smart Wireless Future Technologies, ACG · Advisors: Prof. C.B. Papadias, Prof. G. Vardoulas

- Research in wireless communication:
 - Phase shift keying (PSK) classification with deep neural networks (DNNs)
 - Analysis of AI-enabled integrated sensing and communication (ISAC) systems

Publications

Conference Proceedings:

R. Dolgopolyi and A. Chatzipanagiotou, “EEG Emotion Recognition Through Deep Learning,” in *Proceedings of the 22nd European, Mediterranean, and Middle Eastern Conference on Information Systems (EMCIS)*, 2025.

Submitted:

R. Dolgopolyi, “Transparency of Autonomous Driving Algorithms,” *AI and Ethics (Springer)*, 2025.

Preprints:

R. Dolgopolyi, I. Amaslidou, and A. Margaritou, “Interpretable Machine Learning for Life Expectancy Prediction,” *arXiv*, 2025.

Leadership and Teaching Experience

Founder & Lecturer

January 2025 – May 2025

Behavioral Neuroscience Club, ACG

- Lead the club; organize events and academic activities; conduct lectures on interconnections of AI & neuroscience

Volunteer Tutor

September 2022 – Present

Independent

- Inspire future STEM practitioners by providing programming and mathematics lessons from a creative perspective

Honors

Millennium Fellowship Recipient (2025): United Nations leadership program.

Western Union Global Scholar Nominee (2025): university-selected competitive scholarship.

Dean’s List (2023, 2024, 2025): given for an outstanding academic performance.

Certifications

- Machine Learning & Deep Learning Specializations (Stanford) · Mathematics for Machine Learning (Stanford)
- Computer Science for AI (Harvard) · Machine Learning Summer School (Oxford) · Generative AI (Microsoft)
- Cybersecurity Professional Certificate (Google) · Large Language Model Agents (Hugging Face)

Selected Projects

Interpretable Machine Learning for Life Expectancy Prediction: developed ML models (linear regression, decision trees, random forests) to predict life expectancy using an open WHO dataset and analyzed feature importance for interpretability.

[github.com/r0m4k/MachineLearningforLifeExpectancy]

EEG Emotion Recognition Through Deep Learning: built a CNN-Transformer model for emotion recognition (positive, negative, neutral) based on 5-electrode EEG signals. The project demonstrated novel application of DL algorithms to EEG devices.

[github.com/r0m4k/EmotionRecognitionDeepLearning]

Technical Skills

Programming: MATLAB, C/C++, Java, Python

Other: SQL, Git, Docker, Azure, AWS, Linux, Bash

Machine Learning: TensorFlow, PyTorch, NumPy, Pandas, Scikit-Learn, LlamaIndex, LangGraph