

Konstantinos Zafeirakis

Curriculum Vitae

Faculty of Science

University of Amsterdam
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The Netherlands

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Research Interests

Artificial Intelligence, Reliable and Trustworthy Machine Learning, Data-Centric and Systems-Aware ML, Efficient Inference and Model Serving, Privacy and Auditing in Neural Networks, Information Retrieval, Natural Language Processing

Education

University of Amsterdam, Amsterdam, The Netherlands

2024 – 2026

MSc in Artificial Intelligence

GPA: 8/10 (A equivalent, per Nuffic/UvA conversion guidelines)

Technical University of Crete, Chania, Greece

2019 – 2024

Diploma in Electrical and Computer Engineering

GPA: 8.81/10 | **Rank:** 1st in cohort upon admission

Thesis: "Hallucination Detection in Image Inpainting"

Supervisor: Dr. Grigoris Tsagkatakis

Research Experience

Elsevier B.V. & IRlab UvA, Amsterdam, The Netherlands

June 2025 – Present

Machine Learning Researcher - Supervisor: Evangelos Kanoulas

- Conducted an in-depth literature review on advanced machine unlearning techniques, focusing on post-training data erasure, model compliance, and privacy-preserving ML systems.
- Analyzed methods including certified removal, influence functions, and distillation-based unlearning for dynamic model adaptation without full retraining.
- Ran experiments across multiple models and data partitions; investigated prompting strategies to optimize unlearning performance.

Jobly.ai., Los Angeles, CA, USA

Apr 2025 – Present

Co-founder

- Co-founded an AI-powered platform for matching candidates with opportunities using NLP-based resume parsing and transformer models.
- Fine-tuned a cross-encoder (MS-MARCO MiniLM) on user feedback to improve future match quality for candidates.
- Built a robust end-to-end matching pipeline including preprocessing, model training, scoring and ranking.

Foundation for Research and Technology - Hellas, Heraklion, Greece **June 2023 – Aug. 2024**
Undergraduate Research Fellow - Supervisor: Grigorios Tsagkatakis

- Applied TensorFlow and PyTorch for computer vision challenges: ViT training, fine-tuned image classifiers, CAMs, and data preprocessing.
- Conducted advanced image processing research for hallucination detection in image inpainting.
- Designed and implemented a novel architecture to identify and quantify hallucinations in image inpainting, achieving 87% accuracy in identification and 66% in quantification, enabling more precise evaluations of model performance.
- Presented findings at the [AstroML Journal Club](#), contributing to actionable insights for journal submissions.

Teaching

University of Amsterdam, Amsterdam, The Netherlands

Fall 2025

Teaching Assistant

- 52041COV6Y, Computer Vision 1. Graduate Teaching Assistant.
Course Coordinators: Martin R. Oswald, Dimitrios Tzionas.

Publications

Journal Articles (peer-reviewed)

van Erven, O., Zafeirakis, K., Smit, J., Smidi, J., & Buijs, L. (2025).

[Re] Cooperate or Collapse: Emergence of Sustainable Cooperation in a Society of LLM Agents.

Transactions on Machine Learning Research (TMLR). Reproducibility Certification. [Link](#)

Leadership & Student Activities

VIA - Amsterdam Information Sciences Association, Amsterdam

The Netherlands

Member

Sep 2025 – Present

IEEE-TUC Student Branch, Chania, Greece

Nov. 2019 – Aug. 2024

Member

- Developed a machine learning-based anomaly detection system for post-flight rocket telemetry data, identifying 2 critical anomalies.
- Mentored 10+ new members on multiple projects, improving team performance.
- Led a workshop on “Introduction to Deep Learning with TensorFlow” for 30+ members, boosting student proposals in deep learning by 20

Technical Skills

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

ML/AI: PyTorch, TensorFlow, Scikit-learn, Keras, Computer Vision, NLP, Reinforcement Learning

Other: Git, Data Visualization (Matplotlib, Seaborn), AWS, Signal Processing

Languages

Greek: Native

English: Full Professional Proficiency (C2)