

EDUCATION

Ph.D. in Machine Learning

Nov. 2024 – Present

National and Kapodistrian University of Athens, Department of Informatics and Telecommunications

- Supervisor: Christos Tzamos.
- Research interests: Transformers, Neural Networks, Optimization, Combinatorics.
- Published at: **NeurIPS** (1), **ICLR** (1).

M.Sc. in Statistical Science

Oct. 2020 – Sep. 2021

University of Oxford, Department of Statistics, Lincoln College

- Thesis: *Authorship Attribution in Ancient Greek Texts*, co-supervised by Yannis Assael, George Deligiannidis, and Thea Sommerschild – Grade: 61%.
- Grade: **Merit**.

B.Sc. in Mathematics

Sep. 2016 – Aug. 2020

University of Patras, Department of Mathematics

- Thesis: *Mathematical Techniques in Data Science and Machine Learning*, under the supervision of Michael N. Vrahatis – Grade: **10.00/10.00**.
- Grade: **8.90/10.00** (Distinction), equivalent to first-class honours (**top 1%**).

EXPERIENCE

Ph.D. Researcher

Jul. 2024 – Present

Archimedes, Athena Research Center

- Conducting research on theory-based Machine Learning models through Optimization and Statistics.
- Supervisor: Christos Tzamos.

Research Assistant

Apr. 2024 – Jun. 2024

Technical University of Denmark, Department of Applied Mathematics and Computer Science

- Explored Deep Learning theory via Riemannian geometry.
- Supervisor: Georgios Arvanitidis.

Research Assistant

Apr. 2023 – Dec. 2023

Czech Technical University in Prague, Faculty of Electrical Engineering

- Focused on the Mini-batch Stochastic Subgradient Projection method.
- Supervisors: Vyacheslav Kungurtsev, and Jakub Mareček.

Research Assistant

Apr. 2022 – Apr. 2024

Athena Research Center, Institute for the Management of Information Systems

- Researched the interface of NLP, Privacy, and Security tasks using LLMs.
- Supervisor: Constantinos Patsakis.

Research Assistant

Oct. 2021 – Mar. 2022

Max Planck Institute for Mathematics in the Sciences

- Worked on the authorship attribution task with a focus on Plutarch's texts using LLMs.
- Supervisors: Ivan P. Yamshchikov, and Jürgen Jost.

PUBLICATIONS

C: Conference J: Journal †: equal contribution.

C_3 *A Derandomization Framework for Structure Discovery: Applications in Neural Networks and Beyond*. Nikos Tsikouras, Yorgos Pantis, Ioannis Mitliagkas, Christos Tzamos. **ICLR 2026**. [Paper]

C_2^\dagger *Teaching Transformers to Solve Combinatorial Problems through Efficient Trial & Error*. Panagiotis Giannoulis, Yorgos Pantis, Christos Tzamos. **NeurIPS 2025**. [Paper]

J_1 *The Anatomy of Deception: Measuring Technical and Human Factors of a Large-scale Phishing Campaign*.

Anargyros Chrysanthou, Yorgos Pantis, Constantinos Patsakis. **Computers & Security, 2024.** [Paper]
C₁ BERT in Plutarch's Shadows. Ivan P. Yamshchikov, Alexey Tikhonov, Yorgos Pantis, Charlotte Schubert and Jürgen Jost. **EMNLP 2022.** [Paper]

HONORS & AWARDS

- 4-year Full Scholarship** Jul. 2024 – Present
Archimedes, Athena Research Center
In support of my doctoral studies due to my background.
- Research Infrastructure Grant** Dec. 2024 – Present
GRNET – Greek Research & Technology Network
In support of my doctoral research, computational resources were provided, including AWS credits and high performance computing systems.
- Full Annual Scholarship** Oct. 2020 – Aug. 2021
Bodossaki Foundation
In support of my master's studies due to my bachelor performance.
- Covid-19 Assistance Fund** Jun. 2021
University of Oxford, Lincoln College
In support of my master's studies.
- Vivian Green Student Assistance Scholarship** Feb. 2021
University of Oxford, Lincoln College
In support of my master's studies.
- 4-year Annual Scholarship** Sep. 2016 – Sep. 2020
Greek State Scholarships Foundation
In support of my bachelor studies due to my academic performance.
- 4-year Consistently in the Top 1%** Sep. 2016 – Sep. 2020
University of Patras, Department of Mathematics
Classified in the top-tier of my class for the duration of my bachelor studies.
- Ranked Second Among Admitted Students** Sep. 2016
University of Patras, Department of Mathematics
Second place among accepted candidates for the bachelor's degree program.

TALKS & SERVICE

- Talks**
- Institute of Education Policy – Contributor to the Greek National AI Competition Jan. 2026
 - HSBC – on Transformer reasoning. Sep. 2025
 - Archimedes, Athena Research Center – on Transformer reasoning. May 2025
- Reviewer**
- NeurIPS, ICLR, ICML, TMLR.
- Teaching Assistant**
- National and Kapodistrian University of Athens, Department of Informatics and Telecommunications*
- Computational Learning Theory. Fall Sem. 2025
 - Artificial Intelligence II (Deep Learning for NLP). Fall Sem. 2025
- Volunteer**
- Archimedes, Athena Research Center Sep. 2025 – Present
Organized Greece's AI competition; trained students for the International AI Olympiad.

SKILLS

- **Programming:** Python, PyTorch, C++.
- **Machine Learning:** Neural Networks, Transformers, Natural Language Processing.
- **Foundations:** Statistics, Mathematics.