

EDUCATION

Ph.D. in Machine Learning	Nov. 2024 – Present
<i>National and Kapodistrian University of Athens, Department of Informatics and Telecommunications</i>	
○ 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
<i>University of Oxford, Department of Statistics, Lincoln College</i>	
○ Thesis: <i>Authorship Attribution in Ancient Greek Texts</i> , co-supervised by Yannis Assael, George Deligiannidis, and Thea Sommerschield – Grade: 61%.	
○ Grade: Merit .	
B.Sc. in Mathematics	Sep. 2016 – Aug. 2020
<i>University of Patras, Department of Mathematics</i>	
○ Thesis: <i>Mathematical Techniques in Data Science and Machine Learning</i> , 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
<i>Archimedes, Athena Research Center</i>	
○ Conducting research on theory-based Machine Learning models through Optimization and Statistics.	
○ Supervisor: Christos Tzamos.	
Research Assistant	Apr. 2024 – Jun. 2024
<i>Technical University of Denmark, Department of Applied Mathematics and Computer Science</i>	
○ Explored Deep Learning theory via Riemannian geometry.	
○ Supervisor: Georgios Arvanitidis.	
Research Assistant	Apr. 2023 – Dec. 2023
<i>Czech Technical University in Prague, Faculty of Electrical Engineering</i>	
○ Focused on the Mini-batch Stochastic Subgradient Projection method.	
○ Supervisors: Vyacheslav Kungurtsev, and Jakub Mareček.	
Research Assistant	Apr. 2022 – Apr. 2024
<i>Athena Research Center, Institute for the Management of Information Systems</i>	
○ Researched the interface of NLP, Privacy, and Security tasks using LLMs.	
○ Supervisor: Constantinos Patsakis.	
Research Assistant	Oct. 2021 – Mar. 2022
<i>Max Planck Institute for Mathematics in the Sciences</i>	
○ 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.

- C₃ *A Derandomization Framework for Structure Discovery: Applications in Neural Networks and Beyond*. Nikos Tsikouras, Yorgos Pantis, Ioannis Mitliagkas, Christos Tzamos. **ICLR 2026**. Paper
- C₂† *Teaching Transformers to Solve Combinatorial Problems through Efficient Trial & Error*. Panagiotis Giannoulis, Yorgos Pantis, Christos Tzamos. **NeurIPS 2025**. [Paper]
- J₁ *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	<i>Archimedes, Athena Research Center</i>	<i>Jul. 2024 – Present</i>
	In support of my doctoral studies due to my background.	
Research Infrastructure Grant	<i>GRNET – Greek Research & Technology Network</i>	<i>Dec. 2024 – Present</i>
	In support of my doctoral research, computational resources were provided, including AWS credits and high performance computing systems.	
Full Annual Scholarship	<i>Bodossaki Foundation</i>	<i>Oct. 2020 – Aug. 2021</i>
	In support of my master's studies due to my bachelor performance.	
Covid–19 Assistance Fund	<i>University of Oxford, Lincoln College</i>	<i>Jun. 2021</i>
	In support of my master's studies.	
Vivian Green Student Assistance Scholarship	<i>University of Oxford, Lincoln College</i>	<i>Feb. 2021</i>
	In support of my master's studies.	
4-year Annual Scholarship	<i>Greek State Scholarships Foundation</i>	<i>Sep. 2016 – Sep. 2020</i>
	In support of my bachelor studies due to my academic performance.	
4-year Consistently in the Top 1%	<i>University of Patras, Department of Mathematics</i>	<i>Sep. 2016 – Sep. 2020</i>
	Classified in the top-tier of my class for the duration of my bachelor studies.	
Ranked Second Among Admitted Students	<i>University of Patras, Department of Mathematics</i>	<i>Sep. 2016</i>
	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.