

Andreas Kontogiannis

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EDUCATION

National Technical University of Athens (NTUA), Greece

PhD at the School of ECE, Computation and Reasoning Lab ([CoReLab](#)) Nov. 2023 – Present

- *Advisors:* [Ioannis Panageas](#) (UC Irvine), [Aris Pagourtzis](#) (NTUA)
- *Selected Modules:* Probabilities, Advanced Algorithms, Dynamical Systems, Measure Theory, Matrix Analysis
- *Attended Modules from NKUA* (unofficial): Game Theory, Approximation Algorithms

M.Sc. in Data Science and Machine Learning (90 ECTS)

Oct. 2021 – June 2023

- *Relevant Modules:* Machine Learning, Convex Optimization, Algorithmic Game Theory, Stochastic Processes, Algorithmic Data Science, Deep Learning, Computer Vision, Statistical Modelling, Data Mining
- Unanimously elected to be the student representative for the master's staff meetings

BSc and Integrated M.Eng. in ECE (5-year joint degree; 300 ECTS)

Sep. 2015 – Mar. 2021

- *Major:* Computer Science
- *Relevant Modules:* Pattern Recognition, Neural Networks, Artificial Intelligence, Algorithms and Complexity, Discrete Mathematics, Social Network Analysis, Advanced Databases, Queuing Systems, Distributed Systems

University of Oxford, UK

Oxford Machine Learning Summer School

July 2024

- MLx Representation Learning & Generative AI

RESEARCH AND WORKING EXPERIENCE

Archimedes/Athena RC, Greece

Researcher PhD Candidate (4y)

Jun. 2023 – Present

- *Research Interests:* optimization theory and complexity, learning in games, multi-agent RL (MARL)
- PhD full scholarship for 4 years
- Co-running an optimization theory study group, emphasizing on online convex optimization
- *Advisor:* [Ioannis Panageas](#) (UC Irvine)
- *Research Collaborators:* [Panayotis Mertikopoulos](#) (CNRS & NKUA), [Vasilis Pollatos](#) (Archimedes RU)

University Of Pireaus, UPRC, [AI Laboratory](#), Greece

Research Collaborator

May. 2023 – Present

- *Research Interests:* deep MARL, safe MARL, cooperative exploration and reasoning, agent modelling, reasoning under partial observability (e.g. DecPOMDPs)
- Co-running an RL study group, emphasizing on safe MARL
- *Mentor:* [George A. Vouros](#)
- *Research Collaborators:* [Michael M. Zavlanos](#) (Duke University), [Giorgos Stamou](#) (NTUA)

Research Assistant (Part-time contract) (8m)

Oct. 2021 – May. 2022

- *Research Interests:* explainable deep RL, mimic learning, independent multi-agent RL
- Funded by the [TAPAS](#) project, supported by Horizon 2020 (H2020) grant
- Published at: EXTRAAMAS (1)

Amazon Science, ATS, Barcelona, Spain

Applied Scientist Intern (Level-4) (6m)

Oct. 2022 - Apr. 2023

- *Research Interests:* multi-task RL, multi-objective optimization, exponential smoothing, metrical task systems
- Studied and implemented online algorithms that smooth the predictions of a continuous forecasting model
- Published at: Amazon's internal major ML conference (AMLC)
- *Mentor:* [Hermina Petric Maretic](#)

NCSR "Demokritos", [SKEL - The AI Lab](#), Greece

Undergraduate Research Assistant & Software Engineer Intern (1y)

Mar. 2020 – Feb. 2021

- *Research Interests:* deep RL, state-action spaces discretization, focused web crawling, deep active learning
- Published at: Applied Sciences (1), Planta Medica (1)
- *Research Collaborators:* [George Giannakopoulos](#), [Georgios Paliouras](#)

PUBLICATIONS

- *International Conferences & Workshops*

(2023). A. Kontogiannis* and G. Vouros. *Inherently Interpretable Deep Reinforcement Learning through Mimicking*. **EXTRAAMAS 2023 (AAMAS Workshop)**. [\[paper\]](#)

- *International Journals & Transactions*

(2021). E. Axiotis*, A. Kontogiannis, E. Kalpoutzakis and G. Giannakopoulos. *A Personalized Machine-Learning-Enabled Method for Efficient Research in Ethnopharmacology. The Case of the Southern Balkans and the Coastal Zone of Asia Minor*. **Applied Sciences**. [\[paper\]](#)[\[data\]](#)

(2021). E. Axiotis*, A. Kontogiannis, E. Kalpoutzakis and G. Giannakopoulos. *Artificial Intelligence in the Deployment of Complex tasks in Pharmacology. A case of “Big Data” challenges in Ethnopharmacology*. **Planta Medica**. (Short Lecture). [\[paper\]](#)

PREPRINTS / WORKING PAPERS

(2024). A. Kontogiannis*, D. Kelesis, V. Pollatos, G. Giannakopoulos and G. Paliouras. *Tree-based Focused Web Crawling with Reinforcement Learning*. arXiv. [\[paper\]](#) [\[code\]](#)
(submitted for publication)

AWARDS & HIGHLIGHTS

- PhD full scholarship for 4 years (2023 - 2027) by Archimedes/Athena RC
- Thomaidis Award 2021: Awarded to NTUA undergraduate students with the best publications in 2021.
- Valedictorian Award (*ranked 1st among 180+ students*) from High School “Lyceum Melissa” (Sep 2015)

ACADEMIC SERVICE

Reviewing:

- * ICLR 2024

Teaching Assistantship at NTUA:

- * Computer Programming (Fall’16, Fall’17, Fall’18, Fall’19)
- * Programming Techniques (Spring’17, Spring’18)

SKILLS & TOOLS

Programming Languages: Python, Prolog, Java, C/C++, SQL, R, Standard ML, SPARQL, LaTeX

Data Science: PyTorch, TensorFlow, Sklearn, NumPy, Gensim, re, NLTK, PySpark, matplotlib, ggplot2

RL Frameworks & Libraries: gym, PyMARL, EPyMARL

Programming IDEs: vscode, Jupyter Notebook, Dev-C++

Web Developing: Django, Flask, requests

Languages: Greek (mother tongue), English (C2), German (B1)

IELTS (as of Oct 2022): **8.0**/9.0 (Listening: 8.5, Reading: 8.5, Writing: 7.0, Speaking: 7.0)