Giorgos Mitropoulos

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Experience

LIP6, Sorbonne Université
Doctoral Student — *Nov. 2025 – Present*
- Focusing on greedy learning-augmented algorithms and combinatorial optimization
- Supervised by Evripidis Bampis (SU) and Dimitris Fotakis (NTUA & Archimedes RU)

Archimedes Research Unit — *June 2025 – Oct. 2025*
Undergraduate Researcher — *Sept. 2024 – Oct. 2024*
- Reviewed and presented academic literature on Subset Sum related problems
- Explored techniques for extending algorithms to address higher dimension problems

Education

National Technical University of Athens
School of Applied Mathematical and Physical Sciences — *Sept. 2019 – Oct. 2025*
- Specialized in Mathematics of CS and Statistics
- Integrated Master's program
- G.P.A.: 9.14/10.00

Publications

Approximation Schemes for k-Subset Sum Ratio and k-Way Number Partitioning Ratio
Kanellopoulos, S., *Mitropoulos, G.* et al., in **ISAAC 2025**, DOI: 10.4230/LIPIcs.ISAAC.2025.44.

Hardness, Tractability and Density Thresholds of finite Pinwheel Scheduling Variants
Kanellopoulos, S., *Mitropoulos, G.* et al., to appear in **ICALP 2026**, preprint on arXiv:2604.16030.

Projects

Programming Implemented classic data structures in Java using Generics; applied algorithms such as topological sorting and Huffman coding; developed Python scripts for cryptographic applications

Statistical Analysis Analyzed data using parametric and non-parametric models; applied regression and linear models in R and Minitab; presented results effectively for statistical inference

Skills

Coding Python, R, Java, MySQL, HTML, CSS, Fortran 90

Software Minitab, MATLAB, LaTeX, Microsoft Office

Languages Greek (Native), English (C2 Level)

Seminars

NTUAI Introduction to Artificial Intelligence and Machine Learning; studied and implemented fundamental AI algorithms in Python; trained neural networks with supervised and unsupervised learning techniques

QSilver Quantum Computing and Quantum Algorithms; simulated quantum programming in Python using Qiskit and Cirq; explored quantum measurement, entanglement and superposition principles

Volunteering

Robot Games Referee Collaborated with other referees to integrate children in the Lego League Challenge into STEM; scored robots, resolved conflicts and answered math-related questions

Computer Instructor Taught senior citizens basic computer skills and safe internet browsing; coordinated with other volunteers and created an encouraging learning environment