Panagiotis **Patsilinakos**

COMPUTER SCIENCE RESEARCHER
Paris, France

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Interests

Algorithmic Game Theory · Algorithmic Social Choice · Algorithm Analysis and Design · Randomized Algorithms · Mechanism Design · Approximation and Online Algorithms · Computational Complexity

Education

National Technical University of Athens   *Athens, Greece*
School of Electrical and Computer Engineering

PH.D. IN COMPUTER SCIENCE   *2018-2023*
- Thesis : Mechanism Design, Social Choice and Equilibrium Computation in Restricted Domains
- Viva date : 8/9/2023
- Supervisor : Professor Dimitris Fotakis

University of Patras
School of Engineering   *Patras, Greece*
Computer Engineering and Informatics Department

DIPLOMA (MENG) IN COMPUTER ENGINEERING & INFORMATICS   *2008 - 2016*
- Thesis : Computation of approximate Nash equilibria in congestion games. (translated from Greek)
- Supervisor : Professor Ioannis Caragiannis
- Average score : 7.92/10

Experience

Paris Dauphine-PSL University   *Paris, France*
LAMSADE

PSL JUNIOR RESEARCH CHAIR (TEACHER-RESEARCHER POSTDOC POSITION - FUNDED BY THE
"INVESTISSEMENTS D'AVENIR" PROGRAM OF THE FRENCH GOVERNMENT)   *2025 - present*
- Proposal: "Designing Learning-Augmented Mechanisms and Social Choice Procedures"

Athens University of Economics and Business   *Athens, Greece*

POSTDOC RESEARCHER FOR PROJECT ALGOLINC: (ALGORITHMIC LEARNING THEORY AND INCENTIVES:
SYNERGIES IN OPTIMIZATION AND MECHANISM DESIGN) FUNDED BY THE HFRI (HELLENIC FOUNDATION FOR   *2023 - 2024*
RESEARCH AND INNOVATION)
- Carried out research on the intersection of Mechanism Design and Machine Learning.

National Technical University of Athens   *Athens, Greece*
School of Electrical and Computer Engineering

RESEARCHER FOR PROJECT BALSAM (BEYOND WORST-CASE ANALYSIS IN APPROXIMATION ALGORITHMS AND
MECHANISM DESIGN) FUNDED BY THE HFRI (HELLENIC FOUNDATION FOR RESEARCH AND INNOVATION)   *2020 - 2023*
- Carried out research (on beyond worst case analysis) on mechanism design and on algorithmic social choice.

National Technical University of Athens   *Athens, Greece*
School of Electrical and Computer Engineering

RESEARCHER FOR PROJECT GRATOS (GRAPH THEORETICAL TOOLS FOR SCIENCES) FUNDED BY THE CYPRUS
RESEARCH PROMOTION FOUNDATION   *2019 - 2020*
- Worked on designing and testing clustering and regression techniques for interdisciplinary problems from physics and neuroscience.

National Technical University of Athens
School of Applied Mathematical and Physical Sciences   *Athens, Greece*
Department of Mathematics

RESEARCHER FOR THE IREAD PROJECT (EU HORIZON 2020)   *2017 - 2019*
- Worked on the development of a java application with a graph visualization oriented ui.
- Design of new ePub readers architectures and software, to support interactive e-books.

Hellenic Open University
School of Science & Technology   *Patras, Greece*
Physics Laboratory

SYSTEM ADMINISTRATOR   *2013 - 2016*
- Set up, configuration and maintenance of High Performance Computer Cluster based on Slurm and Lustre.
- Centralized set up configuration and maintenance of multiple pc's, fair-share of resources between users, cluster security and user support.

University of Patras
School of Health Sciences *Patras, Greece*
Department of Pharmacy

COMPUTER CENTER TECHNICIAN (INTERN) *2012 (6 month period)*
- Participated in setup and connectivity of lab's personal computers.
- Participated on the deployment and maintenance of a web forum for the school's students.

University of Patras
School of Engineering
Department of Computer Engineering and informatics *Patras, Greece*
Laboratory For Computing, Unix group

SYSTEM ADMINISTRATOR *2010 - 2016*
- User support on services provided by the Laboratory.
- Management and Development of services, hosted on Linux systems.

Teaching Experience

Paris Dauphine-PSL University
LAMSADE *Paris, France*

TEACHING *2025 - 2026*
- Beyond Worst-Case Analysis with Aspects in Mechanism Design and Computational Social Choice

National Technical University of Athens *Athens, Greece*
School of Electrical and Computer Engineering

TEACHING *2023 - 2024*
- Algorithmic Game Theory

TEACHING ASSISTANT *2018 - 2024*
- Undergraduate courses : Algorithms and Complexity · Introduction to Programming · Compatibility and Complexity
- Postgraduate courses : Algorithmic Game Theory · Network Algorithms and Complexity · Algorithmic Data Science

MENTORING *2018 - 2023*
- 8 undergraduate theses (master's degree equivalent).

Awards & Grants

9/2024   **Grant**, PSL Junior Research Chair PSL JRC 2004 *Paris, France*

Invited Talks

12/2021   **"Strategyproof Facility Location in Perturbation Stable Instances"**, at the New York Colloquium on Algorithms and Complexity

Some IT Skills

Programming   C · C++ · Java · PHP · JavaScript · Python · Scikit-Learn · NumPy · SciPy · Pandas · Bash
Databases   MySQL · PostgreSQL
Software Experience   Slurm · Lustre · Apache · OpenLDAP · Bind · OpenSSH · nfs · ISC DHCP · tftp

Honors

2008   **Distinction**, Mathematics award from Hellenic American Educational Foundation *Athens, Greece*
2008   **Distinction**, Informatics award from Hellenic American Educational Foundation *Athens, Greece*

Other Activities

- Participation in first Greek nationwide cyberdefence exercise "PANOPTIS 2010", hosted by the Ministry of National Defense
- Part of the technical staff for the organization of 4th nationwide Free and Open Source Software Communities Meeting "FOSSCOMM 2011"
- Participation in second Greek nationwide cyberdefence exercise "PANOPTIS 2011", hosted by the Ministry of National Defence
- Member of the capture the flag challenge committee for the 5th nationwide Free and Open Source Software Communities Meeting 2012

Languages

- Greek : Mother tongue
- English : Proficient