# Panagiotis Patsilinakos

Computer Engineer

Athens, Greece

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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

# **Selected Publications**

- [1] I. Anagnostides, D. Fotakis, and P. Patsilinakos, "Metric-distortion bounds under limited information," *J. Artif. Intell. Res.*, vol. 74, pp. 1449–1483, 2022.
- [2] I. Anagnostides, D. Fotakis, and P. Patsilinakos, "Dimensionality and coordination in voting: The distortion of STV," in AAAI, AAAI Press, 2022, pp. 4776–4784.
- [3] D. Fotakis and P. Patsilinakos, "Strategyproof facility location in perturbation stable instances," in *WINE*, ser. Lecture Notes in Computer Science, vol. 13112, Springer, 2021, pp. 95–112.
- [4] D. Fotakis, A. V. Kandiros, T. Lianeas, *et al.*, "Node-max-cut and the complexity of equilibrium in linear weighted congestion games," in *ICALP*, ser. LIPIcs, vol. 168, Schloss Dagstuhl Leibniz-Zentrum für Informatik, 2020, 50:1–50:19.
- [5] I. Anagnostides, D. Fotakis, and P. Patsilinakos, "Asymptotically optimal communication in simple mechanisms," in *SAGT*, ser. Lecture Notes in Computer Science, vol. 12283, Springer, 2020, 17–31. *Under minor review for Theory of Computing Systems (TOCS) journal*.

# Experience\_

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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 - present	
Research and Innovation)		
Carried out research on the intersection of Mechanism Design and Machine Learning.		
National Technical University of Athens	Athana Cara	
School of Electrical and Computer Engineering	Athens, Greece	
Researcher for project BALSAM (Beyond Worst-Case Analysis in Approximation Algorithms and	2020 2022	
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		
School of Electrical and Computer Engineering	Athens, Greece	
Researcher for project GRATOS (Graph Theoretical Tools for Sciences) funded by the Cyprus	2010 2020	
Research Promotion Foundation	2019 - 2020	
• Worked on designing and testing clustering and regression techniques for interdisciplinary problems from physics and neu	iroscience.	

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National Technical University of Athens	
School of Applied Mathematical and Physical Sciences Department of Mathematics	Athens, Greece
Researcher for the iRead project (EU Horizon 2020)	2017 - 2019
<ul> <li>Worked on the development of a java application with a graph visualization oriented ui.</li> <li>Design of new ePub readers architectures and software, to support interactive e-books.</li> </ul>	2017 2013
Hellenic Open University School of Science & Technology	Patras, Greece
Physics Laboratory	
System Administrator	2013 - 2016
<ul> <li>Set up, configuration and maintenance of High Performance Computer Cluster based on Slurm and Lustre.</li> <li>Centralized set up configuration and maintenance of multiple pc's, fair-share of resources between users, cluster security</li> </ul>	/ and user support.
University of Patras	
School of Health Sciences	Patras, Greece
Department of Pharmacy	
Computer Center Technician (Intern)	2012 (6 month period)
<ul> <li>Participated in setup and connectivity of lab's personal computers.</li> <li>Participated on the deployment and maintenance of a web forum for the school's students.</li> </ul>	
University of Patras School of Engineering	
Department of Computer Engineering and informatics	Patras, Greece
Laboratory For Computing, Unix group	
System Administrator	2010 - 2016
<ul><li>User support on services provided by the Laboratory.</li><li>Management and Development of services, hosted on Linux systems.</li></ul>	
Teaching Experience	
National Technical University of Athens	Athens, Greece
School of Electrical and Computer Engineering	
TEACHING ASSISTANT	2018 - 2023
<ul> <li>Undergraduate courses : Algorithms and Complexity · Introduction to Programming · Compatibility and Complexity</li> <li>Postgraduate courses : Algorithmic Game Theory · Network Algorithms and Complexity · Algorithmic Data Science</li> </ul>	
Mentoring	2018 - 2023
• 7 successful undergraduate theses (master's degree equivalent).	
Some IT Skills	
<b>Programming</b> C · C++ · Java · PHP · JavaScript · Python · Scikit-Learn · NumPy · SciPy · Pandas ·	Bash
Databases MySQL · PostgreSQL	
Coffuero Experience Surm Luctre Apacha Open DAD Bind OpenSSU of ISC DUCD the	

**Software Experience** Slurm · Lustre · Apache · OpenLDAP · Bind · OpenSSH · nfs · ISC DHCP · tftp

### Honors & Awards\_\_\_\_\_

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