Giannis Fikioris

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giannisfikioris.org

Research Interests	Theoretical Computer Science, Algorithmic Game Theory, Learning Theory Mechanism Design, Online Learning

Education

Cornell University Aug. 2020 – Present
Ph.D. in Computer Science *Ithaca, NY, USA*
Advised by: Éva Tardos
GPA: 4.11

National Technical University of Athens Sep. 2014 – Sep. 2019
Bsc in Electrical and Computer Engineering *Athens, Greece*
Advised by: *Dimitris Fotakis*
GPA: 9.74/10 — 2$^{\text{nd}}$ out of 298 graduates in 2019

Publications

Online Resource Sharing via DMMF: Efficiency, Robustness and Non-Stationarity
arXiv pre-print,
Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

An extension to "A subsemigroup of the rook monoid"
Semigroup Forum (accepted in 2023),
George Fikioris, Giannis Fikioris.

Approximately Stationary Bandits with Knapsacks
Conference on Learning Theory (COLT) 2023,
Giannis Fikioris, Éva Tardos.

Liquid Welfare guarantees for No-Regret Learning in Sequential Budgeted Auctions
ACM Conference on Economics and Computation (EC) 2023,
Giannis Fikioris, Éva Tardos.

Robust Pseudo-Markets for Reusable Public Resources
ACM Conference on Economics and Computation (EC) 2023,
Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

Karma: Resource Allocation for Dynamic Demands
OSDI 2023, USENIX Symposium on Operating Systems Design and Implementation,
Midhul Vuppalapati, Giannis Fikioris, Rachit Agarwal, Asaf Cidon, Anurag Khandelwal, Éva Tardos.

Incentives in Dominant Resource Fair Allocation under Dynamic Demands
arXiv pre-print,
Giannis Fikioris, Rachit Agarwal, Éva Tardos.

A subsemigroup of the rook monoid
Semigroup Forum (accepted in 2022),
George Fikioris, Giannis Fikioris.

Optimizing Vessel Trajectory Compression for Maritime Situational Awareness
GeoInformatica (accepted in 2022),
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

Mechanism Design for Perturbation Stable Combinatorial Auctions
Symposium on Algorithmic Game Theory (SAGT) 2020,
Theory of Computing Systems.
Giannis Fikioris, Dimitris Fotakis.

Fine-Tuned Compressed Representations of Vessel Trajectories
ACM International Conference on Information and Knowledge Management (CIKM) 2020,
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

Optimizing Vessel Trajectory Compression
Maritime Big Data Workshop (MBDW) 2020,
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis.

Work Experience	**Google Research**	Sep. 2023 – Nov. 2023
	Student Researcher	*Mountain View, California*
	Advised by Mingfei Zhao & Gagan Aggarwal, *Algorithms & Optimization Group*	
	National Centre for Scientific Research "Demokritos"	Aug. 2019 – Jul. 2020
	Research Associate	*Athens, Greece*
	Advised by Alexander Artikis, *Complex Event Recognition Group*	
Teaching experience	**Cornell University**	Fall 2020
	Teaching Assistant, CS 4820 *Introduction to Analysis of Algorithms*	*Ithaca, NY, USA*
	Instructor: *Dexter Kozen*	
	Cornell University	Spring 2021
	Teaching Assistant, CS 3110 *Data Structures and Functional Programming*	*Ithaca, NY, USA*
	Instructor: *Michael Clarkson*	
	National Technical University of Athens	Fall 2019
	Teaching Assistant, *Algorithms and Complexity*	*Athens, Greece*
	Instructor: *Dimitris Fotakis*	
Awards	**Cornell Conference Grant**, *Cornell University*	2023
	Awards $700 to attend a professional conference to present.	
	NDSEG Fellowship, *Cornell University*	2022 – 2025
	Offers full tuition and a monthly stipend for three years.	
	NSF GRFP Fellowship, *Cornell University*	2022
	Offers partial tuition and a monthly stipend for three years (declined in favor of NDSEG).	
	Gerondelis Fellowship, *Cornell University*	2021
	Papakyriakopoulos Award, *National Technical University of Athens*	2015
	For highest grade in Mathematics-related courses in the 1st and 2nd semesters	
	Kritikos Grant, *National Technical University of Athens*	2015
	For highest grade in Mathematics-related courses during the 1st academic year	
	Competitive Programming	2017 – 2019
	1st and 2nd in Greece: IEEEXtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC 2019	
Service and Outreach	**Helping URM Applicants with Graduate School Applications**	Fall 2022
	Program aimed to help underrepresented students with their graduate school applications.	
	Expanding Your Horizons at Cornell	Spring 2022
	Helped in workshop that aims to encourage middle/high-school girls to pursue science and math.	
	ACSU Computer Science Research Night at Cornell	Fall 2021 and 2022
	Presented my research to undergraduate students, to encourage them to participate in CS research.	
	Computer Science Undergraduate Research Program	Summer 2021
	Worked with an undergraduate female student and professor Éva Tardos on a problem about information cascade in graphs.	
	Conference Reviewer	
	NeurIPS 2023, ALT 2024.	

Programming

C/C++, Python, Java, Haskell, OCaml, Prolog, LaTeX, Matlab, Mathematica

Languages

English (fluent), Greek (native), German (intermediate)