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 — 2nd out of 298 graduates in 2019

Work Experience

Google Research — Mar. 2025 – Present
Student Researcher — *New York*
Advised by Yuan Deng, *Market Algorithms Team*

Google Research — Sep. 2023 – Nov. 2023
Student Researcher — *Mountain View, California*
Advised by Mingfei Zhao & Gagan Aggarwal, *Market Algorithms Team*

National Centre for Scientific Research "Demokritos" — Aug. 2019 – Jul. 2020
Research Associate — *Athens, Greece*
Advised by Alexander Artikis, *Complex Event Recognition Group*

Publications

Learning in Budgeted Auctions with Spacing Objectives
EC 2025, ACM Conference on Economics and Computation,
Giannis Fikioris, Robert Kleinberg, Yoav Kolumbus, Raunak Kumar, Yishay Mansour, Éva Tardos.

Beyond Worst-Case Online Allocation via Dynamic Max-min Fairness
EC 2025, ACM Conference on Economics and Computation,
Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

Online Resource Sharing: Better Robust Guarantees via Randomized Strategies
IJCAI 2025, International Joint Conference on Artificial Intelligence,
David X. Lin, Daniel Hall, Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

No-Regret Algorithms in non-Truthful Auctions with Budget and ROI Constraints
WWW 2025, The Web Conference,
Gagan Aggarwal, Giannis Fikioris, Mingfei Zhao.

Allocating Public Goods via Dynamic Max-Min Fairness: Long-Run Behavior and Equilibria
SIGMETRICS 2025, ACM Special Interest Group (SIG) for Computer Performance Evaluation,
Siddhartha Banerjee, Giannis Fikioris, Chido Onyeze, Éva Tardos.

Incentives in Dominant Resource Fair Allocation under Dynamic Demands
SAGT 2024, Symposium on Algorithmic Game Theory,
Giannis Fikioris, Rachit Agarwal, 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
COLT 2023, Conference on Learning Theory,
Giannis Fikioris, Éva Tardos.

Liquid Welfare guarantees for No-Regret Learning in Sequential Budgeted Auctions
EC 2023, ACM Conference on Economics and Computation,
Mathematics of Operations Research (accepted in 2024),
Giannis Fikioris, Éva Tardos.

Robust Pseudo-Markets for Reusable Public Resources
EC 2023, ACM Conference on Economics and Computation,
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.

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, Kosta Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

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

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

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

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		
Google PhD Fellowship, *Cornell University*		Jan. 2025 – Aug. 2026
Full tuition and fees plus a stipend for two years.		
Cornell Conference Grant, *Cornell University*		2023, 2024
Awards $700 to attend a professional conference to present.		
Onassis Scholarship, *Cornell University*		2022 – 2025
Additional financial support over three years.		
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 Scholarship, *Cornell University* 2021
One time financial support.

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.

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<tr><td>Service and Outreach</td><td>

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
EC2025, TCS, JMLR, WWW 2025, ALT 2025, NeurIPS 2023, ALT 2024.

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<tr><td>Skills</td><td>

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

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

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