Giannis Fikioris

Email: gfikioris@cs.cornell.edu   giannisfikioris.org

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

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, New York*
Advised by Yuan Deng & Balu Sivan & Renato Paes Leme, *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*

Awards

Google PhD Fellowship, *Cornell University*   2025 – 2026
Full tuition and fees plus a stipend for two years.

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.

Competitive Programming, *National Technical University of Athens*   2017 – 2019
1st and 2nd places in Greece: IEEEXtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC.

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.

Publications

Robust Resource Allocation via Competitive Subsidies   2026
ITCS 2026, Innovations in Theoretical Computer Science,
David X. Lin, Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

Robust Equilibria in Shared Resource Allocation via Strengthening Border's Theorem
SODA 2026, ACM-SIAM Symposium on Discrete Algorithms,
David X. Lin, Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

Learning in Budgeted Auctions with Spacing Objectives   2025
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.

Approximately Stationary Bandits with Knapsacks
COLT 2023, Conference on Learning Theory,
Mathematics of Operations Research (accepted in 2025),
Giannis Fikioris, 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.

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

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   2022
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   2020
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*

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

Skills

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

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