

Giannis Fikioris

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Email: gfikioris@cs.cornell.edu

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
Advised by: *Éva Tardos*
GPA: 4.11
Ithaca, NY, USA

National Technical University of Athens  SEP. 2014 – SEP. 2019
Bsc in Electrical and Computer Engineering
Advised by: *Dimitris Fotakis*
GPA: 9.74/10 – 2nd out of 298 graduates in 2019
Athens, Greece

Work Experience **Google Research**  MAR. 2025 – PRESENT
Student Researcher
Advised by Yuan Deng & Balu Sivan & Renato Paes Leme, *Market Algorithms Team*
New York

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

National Centre for Scientific Research “Demokritos”  AUG. 2019 – JUL. 2020
Research Associate
Advised by Alexander Artikis, *Complex Event Recognition Group*
Athens, Greece

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: IEEEExtreme 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 **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.

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.

Online Resource Sharing: Better Robust Guarantees via Randomized Strategies

arXiv pre-print,

David X. Lin, Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

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

2024

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.

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 Vuppapapati, 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 Patrourmpas, 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 Patrourmpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

Optimizing Vessel Trajectory Compression

MBDW 2020, Maritime Big Data Workshop,

Giannis Fikioris, Kostas Patrourmpas, Alexander Artikis.

Teaching
experience

Cornell University

Teaching Assistant, CS 4820 *Introduction to Analysis of Algorithms*
Instructor: *Dexter Kozen*

FALL 2020
Ithaca, NY, USA

Cornell University

Teaching Assistant, CS 3110 *Data Structures and Functional Programming*
Instructor: *Michael Clarkson*

SPRING 2021
Ithaca, NY, USA

National Technical University of Athens

Teaching Assistant, *Algorithms and Complexity*
Instructor: *Dimitris Fotakis*

FALL 2019
Athens, Greece

Service and
Outreach

Helping URM Applicants with Graduate School Applications

Program aimed to help underrepresented students with their graduate school applications.

FALL 2022

Expanding Your Horizons at Cornell

Helped in workshop that aims to encourage middle/high-school girls to pursue science and math.

SPRING 2022

ACSU Computer Science Research Night at Cornell

Presented my research to undergraduate students, to encourage them to participate in CS research.

FALL 2021 AND 2022

Computer Science Undergraduate Research Program

Worked with an undergraduate female student and professor Éva Tardos on a problem about information cascade in graphs.

SUMMER 2021

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)