

Giannis Fikioris

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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**  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 **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.

Learning in Budgeted Auctions with Spacing Objectives
arXiv pre-print,
Giannis Fikioris, Robert Kleinberg, Yoav Kolumbus, Raunak Kumar, Yishay Mansour, Éva Tardos.

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

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
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**

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

Awards**Google PhD Fellowship, Cornell University**

Full tuition and fees plus a stipend for two years.

JAN. 2025 – AUG. 2026

Cornell Conference Grant, Cornell University

Awards \$700 to attend a professional conference to present.

2023, 2024

Onassis Scholarship, Cornell University

Additional financial support over three years.

2022 – 2025

NDSEG Fellowship, Cornell University

Offers full tuition and a monthly stipend for three years.

2022 – 2025

NSF GRFP Fellowship, Cornell University

Offers partial tuition and a monthly stipend for three years (declined in favor of NDSEG).

2022

Gerondelis Scholarship, Cornell University

One time financial support.

2021

Papakyriakopoulos Award, National Technical University of Athens

For highest grade in Mathematics-related courses in the 1st and 2nd semesters.

2015

Kritikos Grant, *National Technical University of Athens*

2015

For highest grade in Mathematics-related courses during the 1st academic year.

**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

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)