

# Giannis Fikioris

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[giannisfikioris.org](https://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 – 2<sup>nd</sup> 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 1<sup>st</sup> and 2<sup>nd</sup> semesters.

2015

**Kritikos Grant**, *National Technical University of Athens*

2015

For highest grade in Mathematics-related courses during the 1<sup>st</sup> 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)