

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

No-Regret Algorithms in non-Truthful Auctions with Budget and ROI Constraints
arXiv pre-print,
Gagan Aggarwal, Giannis Fikioris, Mingfei Zhao.

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, Kostas 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****Cornell Conference Grant, Cornell University**

2023

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**Competitive Programming**

2017 – 2019

1st and 2nd in Greece: IEEEExtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC 2019**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

NeurIPS 2023, ALT 2024.

Skills**Programming**

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

Languages

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