

Giannis Fikioris

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giannisfikioris.org




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

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**  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**
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 Vuppapapati, Giannis Fikioris, Rachit Agarwal, Asaf Cidon, Anurag Khandelwal, Éva Tardos.

Incentives in Dominant Resource Fair Allocation under Dynamic Demands
arXiv pre-print,
Giannis Fikioris, Rachit Agarwal, 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**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****Cornell Conference Grant, Cornell University**

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

2023

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

2015

Kritikos Grant, National Technical University of AthensFor highest grade in Mathematics-related courses during the 1st academic year

2015

Competitive Programming1st and 2nd in Greece: IEEEExtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC 2019

2017 – 2019

**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

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)