

Giannis Fikioris

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giannisfikioris.org



Research Theoretical Computer Science, Algorithmic Game Theory, Learning Theory
Interests Mechanism Design, No-regret 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

Publications **Online Resource Sharing via DMMF: Efficiency, Robustness and Non-Stationarity**
arXiv pre-print,
Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

Approximately Stationary Bandits with Knapsacks
Conference on Learning Theory (COLT) 2023,
Giannis Fikioris, Éva Tardos.

Liquid Welfare guarantees for No-Regret Learning in Sequential Budgeted Auctions
ACM Conference on Economics and Computation (EC) 2023,
Giannis Fikioris, Éva Tardos.

Robust Pseudo-Markets for Reusable Public Resources
ACM Conference on Economics and Computation (EC) 2023,
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.

An extension to “A subsemigroup of the rook monoid”
Semigroup Forum (accepted in 2023),
George Fikioris, Giannis Fikioris.

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
Symposium on Algorithmic Game Theory (SAGT) 2020,
Theory of Computing Systems.
Giannis Fikioris, Dimitris Fotakis.

Fine-Tuned Compressed Representations of Vessel Trajectories

ACM International Conference on Information and Knowledge Management (CIKM) 2020,
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

Optimizing Vessel Trajectory Compression

Maritime Big Data Workshop (MBDW) 2020,
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis.

Work Experience

Google Research

Student Researcher

SEP. 2023 – NOV. 2023

Mountain View, California

Advised by Mingfei Zhao & Gagan Aggarwal, *Algorithms & Optimization Group*

National Centre for Scientific Research “Demokritos”

Research Associate

AUG. 2019 – JUL. 2020

Athens, Greece

Advised by Alexander Artikis, *Complex Event Recognition Group*

Teaching experience

Cornell University

Teaching Assistant, CS 4820 *Introduction to Analysis of Algorithms*

FALL 2020

Ithaca, NY, USA

Instructor: *Dexter Kozen*

Cornell University

Teaching Assistant, CS 3110 *Data Structures and Functional Programming*

SPRING 2021

Ithaca, NY, USA

Instructor: *Michael Clarkson*

National Technical University of Athens

Teaching Assistant, *Algorithms and Complexity*

FALL 2019

Athens, Greece

Instructor: *Dimitris Fotakis*

Awards

Cornell Conference Grant, *Cornell University*

2023

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

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 Fellowship, *Cornell University*

2021

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

National Mathematical Competition, *Hellenic Mathematical Society*

2009 – 2014

Various distinctions and medals

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

Participated 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.

Skills

Programming

C/C++, Python, Java, Haskell, OCaml, Prolog

LaTeX, Matlab, Mathematica

Languages

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