Giannis Fikioris

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giannisfikioris.org



Aug. 2020 - Present

Ithaca, NY, USA



Research Theoretical Computer Science, Algorithmic Game Theory, Learning Theory

Interests Mechanism Design, Online Learning

Education Cornell University

Ph.D. in Computer Science Advised by: *Éva Tardos*

GPA: 4.11

SEP. 2014 - SEP. 2019

Athens, Greece

Bsc in Electrical and Computer Engineering Advised by: *Dimitris Fotakis*

GPA: $9.74/10 - 2^{nd}$ out of 298 graduates in 2019

National Technical University of Athens

Work Google Research G

Experience

Google ResearchSEP. 2023 – Nov. 2023Student ResearcherMountain View, California

Advised by Mingfei Zhao & Gagan Aggarwal, Market Algorithms Team

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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 Vuppalapati, 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 Ithaca, NY, USA

Instructor: Dexter Kozen

Spring 2021 Cornell University

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

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: IEEEXtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC 2019

Service and Outreach

Helping URM Applicants with Graduate School Applications

FALL 2022

FALL 2020

2022 - 2025

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)