Giannis Fikioris

Updated April 21, 2023

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Research Interests
Theoretical Computer Science, Algorithmic Game Theory, Learning Theory
Mechanism Design, No-regret 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 our of 298 graduates in 2019

Publications

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.

Approximately Stationary Bandits with Knapsacks
arXiv pre-print,
Giannis Fikioris, Éva Tardos.

Robust Pseudo-Markets for Reusable Public Resources
arXiv pre-print,
Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

An extension to "A subsemigroup of the rook monoid"
arXiv pre-print,
George Fikioris, Giannis Fikioris.

Liquid Welfare guarantees for No-Regret Learning in Sequential Budgeted Auctions
arXiv pre-print,
Giannis Fikioris, 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
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.

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*

Work Experience

National Centre for Scientific Research "Demokritos" — Aug. 2019 – Jul. 2020
Position: Research Associate — *Athens, Greece*
Advised by Alexander Artikis, *Complex Event Recognition Group*

Awards

NDSEG Fellowship, *Cornell University* — Sep. 2022 – Aug. 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.

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: IEEEXtreme 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)