

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 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

Publications **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”
arXiv pre-print,
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.

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

Work Experience

National Centre for Scientific Research “Demokritos”

Position: Research Associate

Advised by Alexander Artikis, *Complex Event Recognition Group*

AUG. 2019 – JUL. 2020

Athens, Greece

Awards

NDSEG Fellowship, Cornell University

Offers full tuition and a monthly stipend for three years.

SEP. 2022 – AUG. 2025

NSF GRFP Fellowship, Cornell University

Offers partial tuition and a monthly stipend for three years.

2022

Gerondelis Fellowship, Cornell University

2021

Papakyriakopoulos Award, National Technical University of Athens

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

2015

Kritikos Grant, National Technical University of Athens

For highest grade in Mathematics-related courses during the 1st academic year

2015

Competitive Programming

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

2017 – 2019

National Mathematical Competition, Hellenic Mathematical Society

Various distinctions and medals

2009 – 2014

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

Participated in workshop that aims to encourage middle/high-school girls to pursue science and math.

SPRING 2022

ACSU Computer Science Research Night at Cornell

Presented my research to undergraduate students, to encourage them to participate in CS research.

FALL 2021 AND 2022

Computer Science Undergraduate Research Program

Worked with an undergraduate female student and professor Éva Tardos on a problem about information cascade in graphs.

SUMMER 2021

Skills

Programming

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

LaTeX, Matlab, Mathematica

Languages

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