

Giannis Fikioris

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giannisfikioris.org



Research Interests Theoretical Computer Science, Algorithmic Game Theory, Learning Theory
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**  MAR. 2025 – PRESENT
Student Researcher New York
Advised by Yuan Deng & Balu Sivan & Renato Paes Leme, *Market Algorithms Team*

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*

Awards **Google PhD Fellowship**, Cornell University 2025 – 2026
Full tuition and fees plus a stipend for two years.

Onassis Scholarship, Cornell University 2022 – 2025
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.

Competitive Programming, National Technical University of Athens 2017 – 2019
1st and 2nd places in Greece: IEEEExtreme 11.0 & 12.0, Google Hash Code 2018, ACM/ICPC SEERC.

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.

Publications **Online Resource Sharing: Better Robust Guarantees via Randomized Strategies** 2026
SODA 2026, ACM-SIAM Symposium on Discrete Algorithms,
David X. Lin, Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

Learning in Budgeted Auctions with Spacing Objectives 2025
EC 2025, ACM Conference on Economics and Computation,
Giannis Fikioris, Robert Kleinberg, Yoav Kolumbus, Raunak Kumar, Yishay Mansour, Éva Tardos.

Beyond Worst-Case Online Allocation via Dynamic Max-min Fairness

EC 2025, ACM Conference on Economics and Computation,

Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

Online Resource Sharing: Better Robust Guarantees via Randomized Strategies

IJCAI 2025, International Joint Conference on Artificial Intelligence,

David X. Lin, Daniel Hall, Giannis Fikioris, Siddhartha Banerjee, Éva Tardos.

No-Regret Algorithms in non-Truthful Auctions with Budget and ROI Constraints

WWW 2025, The Web Conference,

Gagan Aggarwal, Giannis Fikioris, Mingfei Zhao.

Online Resource Sharing: Better Robust Guarantees via Randomized Strategies

arXiv pre-print,

David X. Lin, Siddhartha Banerjee, Giannis Fikioris, Éva Tardos.

Allocating Public Goods via Dynamic Max-Min Fairness: Long-Run Behavior and Equilibria

SIGMETRICS 2025, ACM Special Interest Group (SIG) for Computer Performance Evaluation,

Siddhartha Banerjee, Giannis Fikioris, Chido Onyeze, Éva Tardos.

Liquid Welfare guarantees for No-Regret Learning in Sequential Budgeted Auctions 2024

EC 2023, ACM Conference on Economics and Computation,

Mathematics of Operations Research (accepted in 2024),

Giannis Fikioris, Éva Tardos.

Incentives in Dominant Resource Fair Allocation under Dynamic Demands

SAGT 2024, Symposium on Algorithmic Game Theory,

Giannis Fikioris, Rachit Agarwal, Éva Tardos.

An extension to “A subsemigroup of the rook monoid”

2023

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.

A subsemigroup of the rook monoid

2022

Semigroup Forum (accepted in 2022),

George Fikioris, Giannis Fikioris.

Optimizing Vessel Trajectory Compression for Maritime Situational Awareness

GeoInformatica (accepted in 2022),

Giannis Fikioris, Kosta Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.

Mechanism Design for Perturbation Stable Combinatorial Auctions 2020
*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 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*

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
 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
 EC2025, TCS, JMLR, WWW 2025, ALT 2025, NeurIPS 2023, ALT 2024.

Skills

Programming
 C/C++, Python, Java, Haskell, OCaml, Prolog, \LaTeX , Matlab, Mathematica

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