

# Giannis Fikioris

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[giannisfikioris.github.io](https://giannisfikioris.github.io)

**Citizenship:** Greek, American

**Research interests**      Theoretical Computer Science, Algorithmic Game Theory, Learning Theory

**Education**      **Cornell University**      Ithaca, NY, USA  
PhD in Computer Science      Aug. 2020 – Present  
Advisor: Éva Tardos  
GPA: 4.11

**National Technical University of Athens**      Athens, Greece  
Bsc in Electrical and Computer Engineering      Sep. 2014 – Sep. 2019  
Advisor: Dimitris Fotakis  
GPA: 9.74/10 – 2<sup>nd</sup> among 298 graduates of 2019

**Publications**      **Incentives in Dominant Resource Fair Allocation under Dynamic Demands**  
Giannis Fikioris, Rachit Agarwal, Éva Tardos.  
*arXiv pre-print.*

**A subsemigroup of the rook monoid**  
George Fikioris, Giannis Fikioris.  
*Semigroup Forum (accepted in 2022).*

**Optimizing Vessel Trajectory Compression for Maritime Situational Awareness**  
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.  
*GeoInformatica (accepted in 2022).*

**Mechanism Design for Perturbation Stable Combinatorial Auctions**  
Giannis Fikioris, Dimitris Fotakis.  
*Symposium on Algorithmic Game Theory (SAGT) 2020,*  
*Theory of Computing Systems.*

**Fine-Tuned Compressed Representations of Vessel Trajectories**  
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis, George Paliouras, Manos Pitsikalis.  
*ACM International Conference on Information and Knowledge Management (CIKM) 2020.*

**Optimizing Vessel Trajectory Compression**  
Giannis Fikioris, Kostas Patroumpas, Alexander Artikis.  
*Maritime Big Data Workshop (MBDW) 2020.*

**Teaching experience**      **Cornell University**      Ithaca, NY, USA  
Teaching Assistant, CS 4820 *Introduction to Analysis of Algorithms*      Fall 2020  
Instructor: Dexter Kozen

	<b>Cornell University</b> Teaching Assistant, CS 3110 <i>Data Structures and Functional Programming</i> Instructor: Michael Clarkson	Ithaca, NY, USA Spring 2021
	<b>National Technical University of Athens</b> Teaching Assistant, <i>Algorithms and Complexity</i> Instructor: Dimitris Fotakis	Athens, Greece Fall 2019
Work experience	<b>National Centre for Scientific Research “Demokritos”</b> Position: Research Associate Advised by Alexander Artikis, <i>Complex Event Recognition Group</i>	Athens, Greece Aug. 2019 – Jul. 2020
Awards	<b>NDSEG Fellowship</b> , Cornell University Offers full tuition and a monthly stipend for three years.	2022
	<b>NSF GRFP Fellowship</b> , Cornell University Offers partial tuition and a monthly stipend for three years.	2022
	<b>Gerondelis Fellowship</b> , Cornell University	2021
	<b>Papakyriakopoulos Award</b> , National Technical University of Athens For highest grade in Mathematics-related courses in the 1 <sup>st</sup> and 2 <sup>nd</sup> semesters	2015
	<b>Kritikos Grant</b> , National Technical University of Athens For highest grade in Mathematics-related courses during the 1 <sup>st</sup> academic year	2015
Service and outreach	<b>Cornell University</b> Expanding Your Horizons at Cornell – nationwide program that encourages middle schoolers to pursue careers in science and math.	Nov. 2021
	<b>Cornell University</b> ACSU Computer Science Research Night – presented my research to undergraduate students, aimed to encourage them to participate in CS research.	Nov. 2021
	<b>Cornell University</b> 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	<b>Programming</b> C/C++, Python, Java, Haskell, OCaml, Prolog $\LaTeX$ , Matlab, Mathematica	
	<b>Languages</b> English (fluent), Greek (native), German (intermediate)	