Alexandros Tsigonias-Dimitriadis

CONTACT INFORMATION

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https://alextsigonias.github.io/

RESEARCH INTERESTS

Market Design, Algorithmic Game Theory, Sequential Decision-Making, Online Optimization, Fairness in Resource Allocation, Data-Driven Algorithm Design, Pricing and Revenue Management

EMPLOYMENT

University of Chile, Santiago de Chile   Aug. 2022 - July 2023
Postdoctoral Researcher, Department of Industrial Engineering
Information and Computation in Market Design (ICMD) Group
Host: Prof. José R. Correa

EDUCATION

Technical University of Munich, Germany   Sept. 2018 - July 2022
Ph.D., TUM School of Computation, Information and Technology
AdONE PhD program & Operations Research Group
Thesis: Lotteries, Prophets, and Pandora's Box: A New Take on Classic Problems in Mechanism Design and Online Selection
Advisor: Prof. Andreas S. Schulz

National Technical University of Athens, Greece   Oct. 2012 - June 2018
Diploma in Electrical and Computer Engineering (5-year joint degree)
GPA: 8.88/10 (top 5%)
Major in Computer Science, Minor in Mathematics & Computer Networks
Thesis: Analysis of Opinion Formation Dynamics using Convex Optimization Techniques
Advisor: Prof. Dimitris Fotakis

Technical University of Munich, Germany   Apr. - Sept. 2016
Erasmus semester, Department of Electrical and Computer Engineering

JOURNAL ARTICLES
(Authors are listed alphabetically)

Robust Revenue Maximization Under Minimal Statistical Information
Yiannis Giannakopoulos, Diogo Poças, Alexandros Tsigonias-Dimitriadis
ACM Transactions on Economics and Computation **(ACM TEAC)**, Forthcoming
An extended abstract appeared in *WINE'20*

CONFERENCE PUBLICATIONS
(Authors are listed alphabetically)

The Secretary Problem with Independent Sampling
José Correa, Andrés Cristi, Laurent Feuilloley, Tim Oosterwijk, Alexandros Tsigonias-Dimitriadis
32nd ACM-SIAM Symposium on Discrete Algorithms **(SODA'21)**

Robust Revenue Maximization Under Minimal Statistical Information
Yiannis Giannakopoulos, Diogo Poças, Alexandros Tsigonias-Dimitriadis
16th Conference on Web and Internet Economics **(WINE'20)**

WORKING PAPERS

The Secretary Problem with Independent Sampling
José Correa, Andrés Cristi, Laurent Feuilloley, Tim Oosterwijk, Alexandros Tsigonias-Dimitriadis
Under Review after Major Revision, **Management Science**
A preliminary version appeared in *SODA'21*

Prophet Inequalities via the Expected Competitive Ratio
Tomer Ezra, Stefano Leonardi, Rebecca Reiffenhäuser, Matteo Russo, Alexandros Tsigonias-Dimitriadis
Under Review

Iterative Combinatorial Auctions: An Improved Approach using Reinforcement Learning
Eleni Batziou, Alexandros Tsigonias-Dimitriadis, Giorgos Bouritsas

RESEARCH VISITS	**Sapienza Università di Roma**, Italy	Mar. 2022
	Host: Prof. Stefano Leonardi	
	Universidad de Chile, Chile	Nov. - Dec. 2019
	Host: Prof. José Correa	
SELECTED TALKS & POSTERS	*Prophet Inequalities via the Expected Competitive Ratio*	
	ACGO Seminar, Universidad de Chile	Aug. 2022
	The Secretary Problem with Independent Sampling	
	Workshop on Algorithms for Learning and Economics (WALE), Poster	June 2022
	INFORMS Annual Meeting	Oct. 2021
	Robust Revenue Maximization Under Minimal Statistical Information	
	16th Conference on Web and Internet Economics (WINE)	Dec. 2020
	AdONE Research Seminar, TU Munich	Nov. 2019
SCHOLARSHIPS & AWARDS	COST Action STSM Grant	2022
	Funding from the COST Action for research visit at the Sapienza University of Rome	
	AdONE start-up funding	2021-22
	Funding from the German Research Foundation (DFG) for early-stage researchers	
	IGSSE PhD Scholarship	2018-21
TEACHING EXPERIENCE	Technical University of Munich, Germany	
	Teaching Assistant, Special Topics in Algorithmic Game Theory	Spring 2019
	Co-supervisor of two Master theses	
	National Technical University of Athens, Greece	
	Teaching Assistant, Algorithms and Complexity	Fall 2017
	Private Tutor, Athens, Greece	2013 - 2016
	Mathematics and Physics for high school students	
PROFESSIONAL SERVICE	*Conference reviewing*: SODA'23, SAGT'22, EC'22	
	Organizer of the AdONE (Advanced Optimization in a Networked Economy) research group retreat	2020
	Volunteer, STOC 2022	
COMPUTER SKILLS	Programming: Python, C, C++	
	Software and Tools: Gurobi, Git, LaTeX, Mathematica	

LANGUAGES	English (fluent), Greek (native), Spanish (fluent), German (advanced), French (basic)	
OTHER	Member of IEEE, NTUA Student Branch	2015-16
ACTIVITIES	Volunteer, The Smile of the Child (NGO)	2015-16
	Hobbies: Piano, Reading, Cycling	