Alexandros Tsigonias-Dimitriadis

CONTACT INFORMATION

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https://alextsigonias.github.io/

RESEARCH INTERESTS

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

EMPLOYMENT

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

EDUCATION

Technical University of Munich, Germany
Ph.D., TUM School of Computation, Information and Technology
Completed the interdisciplinary PhD program as member of the AdONE (Advanced Optimization in a Networked Economy) and the Operations Research Groups
Thesis: Lotteries, Prophets, and Pandora's Box: A New Take on Classic Problems in Mechanism Design and Online Selection
Advisor: Prof. Andreas S. Schulz
Sept. 2018 - July 2022

National Technical University of Athens, Greece
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
Oct. 2012 - June 2018

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

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)**
An extended abstract appeared in *WINE'20*
2022

CONFERENCE PUBLICATIONS
(Authors are listed alphabetically)

Prophet Secretary Against the Online Optimal
Paul Dütting, Evangelia Gergatsouli, Rojin Rezvan, Yifeng Teng, Alexandros Tsigonias-Dimitriadis
24th ACM Conference on Economics and Computation **(EC'23)**

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)**

UNDER REVIEW	*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*	
	Political Apportionment: Ex-ante Proportionality and Monotonicity Through the Lens of Linear Programming Javier Cembrano, José Correa, Alexandros Tsigonias-Dimitriadis, Victor Verdugo *Submitted*	
WORKING PAPERS	*Prophet Inequalities via the Expected Competitive Ratio* Tomer Ezra, Stefano Leonardi, Rebecca Reiffenhäuser, Matteo Russo, Alexandros Tsigonias-Dimitriadis *Working paper*	
	Preference Elicitation in Combinatorial Auctions: An Improved Approach using Reinforcement Learning Eleni Batziou, Giorgos Bouritsas, Alexandros Tsigonias-Dimitriadis *Working paper*	
	Online Policies for Content Recommendation with Fairness Constraints José Correa, Émile Naquin, Nicolás Stier-Moses, Alexandros Tsigonias-Dimitriadis, Victor Verdugo *Working paper*	
RESEARCH VISITS	**Google Research**, Switzerland Topic: Online decision-making with applications in pricing *Host*: Dr. Paul Duetting	May - July 2023
	Sapienza Università di Roma, Italy *Host*: Prof. Stefano Leonardi	Mar. 2022
	Universidad de Chile, Chile *Host*: Prof. José Correa	Nov. - Dec. 2019
AWARDS & SCHOLARSHIPS	COST Action STSM Grant Funding from the COST Action for research visit at the Sapienza University of Rome	2022
	DFG-AdONE start-up funding Funding from the German Research Foundation (DFG) for talented early career researchers	2021-22
	IGSSE PhD Scholarship	2018-21
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 INFORMS Annual Meeting	June 2022 Oct. 2021
	Robust Revenue Maximization Under Minimal Statistical Information 16th Conference on Web and Internet Economics (WINE)	Dec. 2020

| COMPUTER SKILLS | Programming: Python (fluent), R, C++, C, Matlab (familiar with) |
| | Software and Tools: Gurobi, Git, LaTeX, Mathematica (fluent), PyTorch (familiar with) |

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*: NeurIPS'23, ICML'23	
	Conference subreviewing: COLT'23, IPCO'23, SODA'23, SAGT'22, EC'22	
	Volunteer, STOC 2022	
	Organizer of the AdONE research group retreat	2020

| LANGUAGES | English (fluent), Greek (native), Spanish (fluent), German (advanced), French (basic) |

OTHER ACTIVITIES	Member of IEEE, NTUA Student Branch	2015-16
	Volunteer, The Smile of the Child (NGO)	2015-16
	Hobbies: Piano, Reading, Cycling	