Alexandros Tsigonias-Dimitriadis

CONTACT INFORMATION

European Central Bank, Sonnemannstr. 20, 60314 Frankfurt am Main, Germany

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https://alextsigonias.github.io/

RESEARCH INTERESTS

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

EMPLOYMENT

European Central Bank, Germany

July 2023 - now

PhD trainee in Analytics & Research, DG-Communications

- Working with a variety of datasets and statistical methods to inform and evaluate the ECB's policy communication strategies.
- Carrying out research projects for example, on how to improve people's knowledge
 of and attitudes towards the ECB.

Universidad de Chile, Chile

Aug. 2022 - July 2023

Postdoctoral Researcher, Department of Industrial Engineering Information and Computation in Market Design (ICMD) Group

- Worked on projects at the intersection of computer science and economics. Topics revolved around the topic of resource allocation and included fairness considerations in recommendation systems and optimization aspects of political apportionment.
- Collaborated with researchers from academia and industry.

EDUCATION

Technical University of Munich, Germany

Sept. 2018 - July 2022

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 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

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

RESEARCH VISITS

Google Research, Switzerland

May - July 2023

Main topic: Online decision-making and matching algorithms with applications in pricing

Host: Dr. Paul Duetting

Sapienza Università di Roma, Italy

Mar. 2022

Host: Prof. Stefano Leonardi

Universidad de Chile, Chile Nov. - Dec. 2019

Host: Prof. José Correa

JOURNAL Robust Revenue Maximization Under Minimal Statistical Information
ARTICLES Yiannis Giannakopoulos, Diogo Poças, Alexandros Tsigonias-Dimitriadis

(Authors are listed ACM Transactions on Economics and Computation (ACM TEAC)

alphabetically) An extended abstract appeared in WINE'20

The Secretary Problem with Independent Sampling

José Correa, Andrés Cristi, Laurent Feuilloley, Tim Oosterwijk, Alexandros Tsigonias-Dimitriadis

2022

Minor Revision, Management Science A preliminary version appeared in SODA'21

CONFERENCE Prophet Inequalities via the Expected Competitive Ratio

PUBLICATIONS (Authors are listed

Tomer Ezra, Stefano Leonardi, Rebecca Reiffenhäuser, Matteo Russo, Alexandros Tsigonias-

Dimitriadis

alphabetically) 19th Conference on Web and Internet Economics (WINE'23), to appear

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 Pocas. Alexandros Tsigonias-Dimitriadis

16th Conference on Web and Internet Economics (WINE'20)

SUBMITTED &

Online Policies for Content Recommendation with Fairness Constraints

WORKING PAPERS José Correa, Émile Naquin, Nicolás Stier-Moses, Alexandros Tsigonias-Dimitriadis, Victor

Verdugo

Working paper

Political Apportionment: The Power of Divisor Methods and Randomization

Javier Cembrano, José Correa, Alexandros Tsigonias-Dimitriadis, Ulrike Schmidt-Kraepelin,

Victor Verdugo

In preparation for submission

Prophet Secretary Against the Online Optimal

Paul Dütting, Evangelia Gergatsouli, Rojin Rezvan, Yifeng Teng, Alexandros Tsigonias-

Dimitriadis

Submitted journal version

Preference Elicitation in Combinatorial Auctions: An Improved Approach using Reinforcement

Learning

Eleni Batziou, Giorgos Bouritsas, Alexandros Tsigonias-Dimitriadis

Working paper

AWARDS & COST Action STSM Grant 2022

SCHOLARSHIPS Funding from the COST Action for research visit at the Sapienza University of Rome

	DFG-AdONE start-up funding Funding from the German Research Foundation (DFG) for talented early career researchers	
	IGSSE PhD Scholarship	2018-21
CODING & SOFTWARE	Programming: Python (fluent), R, C++, C, SQL, Matlab (familiar with) Software and Tools: Gurobi, Git, \LaTeX , Mathematica, PyTorch, Tableau	
PROFESSIONAL SERVICE	Conference & Journal reviewing: NeurIPS'23, ICML'23, Math. Programming Conference subreviewing: COLT'23, IPCO'23, SODA'23, SAGT'22, EC'22 Volunteer, STOC 2022	
	Organizer of the AdONE research group retreat	2020
SELECTED TALKS & POSTERS	Prophet Secretary Against the Online Optimal Workshop on Algorithms, Learning, and Games (ALGA)	June 2023
	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) INFORMS Annual Meeting	June 2022 Oct. 2021
	Robust Revenue Maximization Under Minimal Statistical Information 16th Conference on Web and Internet Economics (WINE)	Dec. 2020
TEACHING EXPERIENCE	Technical University of Munich, Germany Teaching Assistant, Special Topics in Algorithmic Game Theory Co-supervisor of two Master theses	Spring 2019
	National Technical University of Athens, Greece Teaching Assistant, Algorithms and Complexity	Fall 2017
	Private Tutor, Athens, Greece Mathematics and Physics for high school students	2013 - 2016
LANGUAGES	English (fluent), Greek (native), Spanish (fluent), German (advanced), French (basic)	