

Alexandros Tsigonias-Dimitriadis

CONTACT INFORMATION	Department of Industrial Engineering, Republica 701, Santiago, Chile alexandrostsigidim@gmail.com +56 982808-251 https://alextsigonias.github.io/
RESEARCH INTERESTS	Algorithmic Game Theory, Sequential Decision-Making, Market Design, Fairness in Resource Allocation, Data-Driven Algorithm Design, Online Optimization, 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)	<i>Robust Revenue Maximization Under Minimal Statistical Information</i> Yiannis Giannakopoulos, Diogo Poças, Alexandros Tsigonias-Dimitriadis <i>ACM Transactions on Economics and Computation (ACM TEAC)</i> , Forthcoming An extended abstract appeared in <i>WINE'20</i>
CONFERENCE PUBLICATIONS (Authors are listed alphabetically)	<i>The Secretary Problem with Independent Sampling</i> José Correa, Andrés Cristi, Laurent Feuilloley, Tim Oosterwijk, Alexandros Tsigonias-Dimitriadis <i>32nd ACM-SIAM Symposium on Discrete Algorithms (SODA'21)</i> <i>Robust Revenue Maximization Under Minimal Statistical Information</i> Yiannis Giannakopoulos, Diogo Poças, Alexandros Tsigonias-Dimitriadis <i>16th Conference on Web and Internet Economics (WINE'20)</i>
WORKING PAPERS	<i>The Secretary Problem with Independent Sampling</i> José Correa, Andrés Cristi, Laurent Feuilloley, Tim Oosterwijk, Alexandros Tsigonias-Dimitriadis <i>Under Review after Major Revision, Management Science</i> A preliminary version appeared in <i>SODA'21</i>

Prophet Inequalities via the Expected Competitive Ratio

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

Submitted

Preference Elicitation in Combinatorial Auctions: An Improved Approach using Reinforcement Learning

Eleni Batziou, Giorgos Bouritsas, Alexandros Tsigonias-Dimitriadis

Submitted

Political Apportionment: Ex-ante Proportionality and Monotonicity Through the Lens of Linear Programming

Javier Cembrano, José Correa, Alexandros Tsigonias-Dimitriadis, Victor Verdugo

Submitted

Prophet Secretary Against the Online Optimal

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

Submitted

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
INFORMS Annual Meeting

June 2022

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

AWARDS &
SCHOLARSHIPS

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
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
PROFESSIONAL SERVICE	Conference reviewing: IPCO'23, SODA'23, SAGT'22, EC'22 Volunteer, STOC 2022 Organizer of the AdONE (Advanced Optimization in a Networked Economy) research group retreat	2020
COMPUTER SKILLS	Programming: Python, C++ Software and Tools: Gurobi, Git, \LaTeX , Mathematica	
LANGUAGES	English (fluent), Greek (native), Spanish (fluent), German (advanced), French (basic)	
OTHER ACTIVITIES	Member of IEEE, NTUA Student Branch Volunteer, The Smile of the Child (NGO) Hobbies: Piano, Reading, Cycling	2015-16 2015-16