# Artem **Tsikiridis**

# POSTDOCTORAL RESEARCHER

CWI: Room M236, Science Park 123, 1098 XG Amsterdam, The Netherlands

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Educatio	n			
Athens University of Economics and Business  PhD IN Computer Science  Dissertation: Design and Analysis of Auction Mechanisms: Algorithms and Incentives Advisor: Evangelos Markakis  Athens, Green of the Computer of Computer Science of Auction Mechanisms: Algorithms and Incentives				
Athens University of Economics and Business  MSC IN COMPUTER SCIENCE  OPA: 9.4/10 (Excellent)  Thesis: Multi-unit Auctions - Equilibria and Inefficiency  Advisor: Evangelos Markakis				
Athens University of Economics and Business  BSC IN MANAGEMENT SCIENCE & TECHNOLOGY  • GPA: 8.83/10 (Excellent)  • Stream: Quantitative Methods in Management Science (Operations Research)				
Positions and Academic Visits				
05/23-04/25	<b>Postdoctoral Researcher</b> , Centrum Wiskunde & Informatica (hosted by Guido Schäfer), Amsterdam, Netherlands			
04/24-05/24	Visitor, Sapienza University of Rome (hosted by Stefano Leonardi), Rome, Italy			
10/22-12/22	Research Intern, CWI (Networks & Optimization Group), Amsterdam, Netherlands			
03/22	Visitor, University of Essex (hosted by Georgios Amanatidis), Colchester, UK			
06/22-07/22	Research Intern, Archimedes Unit (Athena Research Center), Athens, Greece			
09/17-05/18	Research and Teaching Assistant, University of British Columbia, Vancouver, Canada			
01/14-12/14	Intern in Software Engineering, CERN, Geneva, Switzerland			
06/13-08/13	Intern in Cloud Computing, CERN, Geneva, Switzerland			
Awards &	z Fellowships			
2019 2018 2017 2012-2013	<ul> <li>PhD Fellowship, Hellenic Foundation for Research and Innovation (highest proposal evaluation for mathematics and computer science in the country)</li> <li>PhD Scholarship, Department of Informatics, AUEB</li> <li>Best Paper Award, Symposium on Algorithmic Game Theory, 2017</li> <li>G. Chalkiopoulos Award for Excellence in Undergraduate Studies, Athen</li> </ul>	s		
	University of Economics and Business			

Teaching Experience				
11/2024	<b>NETWORKS goes to School</b> , led seminar introducing high school students to research mathematics. Co-developed learning materials.	Amsterdam, NL		
2019-2022 (Spring)	Algorithmic Game Theory, assignment grading. Graduate course at the University of Amsterdam.	Amsterdam, NL		
2019-2022 (Spring)	Introduction to Algorithms, weekly tutorials, grading duties and office hours.  Junior undergraduate course at the Athens University of Economics and Business.	Athens, Greece		
2019-2022 (Spring)	Game Theory and Decision Theory, weekly tutorials, grading duties and office hours. Senior undergraduate course at the Athens University of Economics and Business.	Athens, Greece		
2018 (Spring)	<b>Advanced Algorithms</b> , assignment grading and office hours. Senior undergraduate course at the University of British Columbia.	Vancouver, Canada		
Student Supervision				
09/24-05/25	Twan Kroll, MSc Thesis (co-supervised with G. Schäfer) Efficiency of Multi-unit Autobidding Auctions	CWI, Netherlands		

# Publications<sup>1</sup> \_\_\_\_ Working Papers

Bart de Keijzer, Guido Schäfer, **Artem Tsikiridis**, Carmine Ventre. The Effectiveness of Golden Tickets and Wooden Spoons for Budget-Feasible Mechanisms [arXiv]

Riccardo Colini-Baldeschi, Sophie Klumper, Stefano Leonardi, Guido Schäfer, **Artem Tsikiridis**. Smoothness meets Autobidding: Tight Price of Anarchy Bounds for Simultaneous First-Price Auctions

Georgios Amanatidis, Evangelos Markakis, Christodoulos Santorinaios, Guido Schäfer, Panagiotis Tsamopoulos, and **Artem Tsikiridis**. Online Budget Feasible Mechanisms with Predictions.

#### IN REFEREED CONFERENCE PROCEEDINGS

Georgios Amanatidis, Federico Fusco, Rebecca Reiffenhäser, **Artem Tsikiridis**. Pandora's Box Problem Over Time, in *Proceedings of the 20th Conference on Web and Internet Economics* (**WINE 2024**, Edinburgh, UK). [arXiv] | [my talk at Dutch Seminar on Optimization]

Riccardo Colini-Baldeschi, Sophie Klumper, Guido Schäfer, **Artem Tsikiridis**. To Trust or Not to Trust: Assignment Mechanisms with Predictions in the Private Graph Model, in *Proceedings of the 25th ACM Conference on Economics and Computation* (**EC 2024**, New Haven, USA. [arXiv] | [my talk at EC24]

Georgios Amanatidis, Sophie Klumper, Evangelos Markakis, Guido Schäfer, **Artem Tsikiridis**. Partial Allocations in Budget-Feasible Mechanism Design: Bridging Multiple Levels of Service and Divisible Agents, in *Proceedings of the 19th Conference on Web and Internet Economics* (**WINE 2023**, Shanghai, China. [arXiv]

Evangelos Markakis, Georgios Papastiropoulos, **Artem Tsikiridis**. On Improved Interval Cover Mechanisms for Crowdsourcing Markets, in *Proceedings of the 15th International Symposium on Algorithmic Game Theory* (**SAGT 2022**, Colchester, UK). [full version]

Evangelos Markakis, Alkmini Sgouritsa, **Artem Tsikiridis**. Towards a Characterization of Worst Case Equilibria in the Discriminatory Price Auction, in *Proceedings of the 17th Conference on Web and Internet Economics* (WINE 2021, remote). [full version] | [my talk at WINE21]

<sup>&</sup>lt;sup>1</sup>The authors are listed in alphabetical order.

Evangelos Markakis, **Artem Tsikiridis**. On Core-Selecting and Core-Competitive Mechanisms for Binary Single-Parameter Auctions, in *Proceedings of the 15th Conference on Web and Internet Economics* (**WINE 2019**, New York, USA). [full version] | [my talk at WINE19 (2:15:00)]

Georgios Birmpas, Evangelos Markakis, Orestis Telelis, **Artem Tsikiridis**. Tight Welfare Guarantees for Pure Nash Equilibria of the Uniform Price Auction, in *Proceedings of the 10th International Symposium on Algorithmic Game Theory* (**SAGT 2017**, L'Aquila, Italy). **Best Paper Award**. [link]

#### **JOURNALS**

Georgios Amanatidis, Sophie Klumper, Evangelos Markakis, Guido Schäfer, **Artem Tsikiridis**. Partial Allocations in Budget-Feasible Mechanism Design: Bridging Multiple Levels of Service and Divisible Agents, *ACM Transactions on Economics and Computation*, 2025 (supersedes the conference publication with the same name). [arXiv]

Georgios Birmpas, Evangelos Markakis, Orestis Telelis, **Artem Tsikiridis**. Tight Welfare Guarantees for Pure Nash Equilibria of the Uniform Price Auction, *Theory of Computing Systems*, 2019 (supersedes the conference publication with the same name). [full version]

#### THESES

# Design and Analysis of Auction Mechanisms: Algorithms and Incentives.

PhD Thesis, Athens University of Economics and Business, April 2023.

Advisor: Assoc. Prof. Evangelos Markakis.

[thesis]

#### Multi-unit Auctions: Equilibria and Inefficiency.

MSc Thesis, Athens University of Economics and Business, July 2017.

Advisor: Assoc. Prof. Evangelos Markakis.

[thesis]

$T_0 H_{c0}$	and	Workshops
Talks	and	VVOLKSHODS

#### INVITED TALKS

November 2024. Pandora's Box Over Time. Dutch Seminar on Optimization (online).

June 2024. Assignment Mechanisms with Predictions. Archimedes / Athena Research Center, Athens, Greece.

November 2023. Partial Allocations in Budget Feasible Mechanism Design. University of Amsterdam, Amsterdam, The Netherlands.

#### Posters in Invitational Workshops

WALE 2024, Workshop on Algorithms, Learning and Economics, Kefalonia, Greece, 06/24

SLMath, Algorithms, Approximation, and Learning in Market and Mechanism Design, Berkeley, USA, 11/23

ALGA 2023, Algorithms, Learning and Games, Sicily, Italy, 06/23

WALE 2022, Workshop on Algorithms, Learning and Economics, Naxos, Greece, 06/22

Service \_\_\_\_

#### PROGRAM COMMITTEES

EC (2025), IJCAI (2025), AAMAS (2025), ECAI (2025) WINE (2024), ECAI (2024), SAGT (2023, 2025)

Journal Reviewer

Naval Research Logistics (2025), Theoretical Computer Science (2023-2024)

Subreviewer

STOC (2025), EC (2020, 2022, 2024), WINE (2017-2021), ITCS (2020), ICALP (2019), AAMAS (2018), STACS (2024), FCT (2021), SAGT (2022-2024), COCCOON (2024)

# LOCAL ARRANGEMENTS FOR CONFERENCES

SAGT 2024 (Amsterdam, Netherlands), SAGT 2019 (Athens, Greece), 20PoA (Chania, Greece), ACAC (2017 & 2020, Athens, Greece)

Languages and Technical Skills\_\_\_\_\_

Languages: English (C2 level), French (B1 level), Greek (native), Russian (native)

Technical Skills: Python, Java, UNIX-based systems, Latex typesetting.