

Artem Tsikiridis

POSTDOCTORAL RESEARCHER

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

✉ artem.tsikiridis@cw.nl | 🏠 artemtsikiridis.com

Education

Athens University of Economics and Business

Athens, Greece

PHD IN COMPUTER SCIENCE

06/18 - 04/23

- Dissertation: Design and Analysis of Auction Mechanisms: Algorithms and Incentives
- Advisor: Evangelos Markakis

Athens University of Economics and Business

Athens, Greece

MSC IN COMPUTER SCIENCE

10/15 - 07/17

- GPA: 9.4/10 (Excellent)
- Thesis: Multi-unit Auctions - Equilibria and Inefficiency
- Advisor: Evangelos Markakis

Athens University of Economics and Business

Athens, Greece

BSC IN MANAGEMENT SCIENCE & TECHNOLOGY

10/10 - 09/15

- GPA: 8.83/10 (Excellent)
- Stream: Quantitative Methods in Management Science (Operations Research)

Positions and Academic Visits

- 05/23-04/25 **Postdoctoral Researcher**, 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 & Fellowships

- 2019 **PhD Fellowship**, Hellenic Foundation for Research and Innovation (highest proposal evaluation for mathematics and computer science in the country)
- 2018 **PhD Scholarship**, Department of Informatics, AUEB
- 2017 **Best Paper Award**, Symposium on Algorithmic Game Theory, 2017
- 2012-2013 **G. Chalkiopoulos Award for Excellence in Undergraduate Studies**, Athens University of Economics and Business

Teaching Experience

11/2024	NETWORKS goes to School , 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)	Advanced Algorithms , 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
-------------	--	---------------------

Publications¹

WORKING PAPERS

Bart de Keijzer, Guido Schäfer, **Artem Tsikiris**, Carmine Ventre. The Effectiveness of Golden Tickets and Wooden Spoons for Budget-Feasible Mechanisms (**submitted to EC 2025**)[[arXiv](#)]

Riccardo Colini-Baldeschi, Sophie Klumper, Stefano Leonardi, Guido Schäfer, **Artem Tsikiris**. Smoothness meets Autobidding: Tight Price of Anarchy Bounds for Simultaneous First-Price Auctions (**submitted to EC 2025**)

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

IN REFEREED CONFERENCE PROCEEDINGS

Georgios Amanatidis, Federico Fusco, Rebecca Reiffenhäser, **Artem Tsikiris**. 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 Tsikiris**. 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, submitted to MOR)*. [[arXiv](#)] | [[my talk at EC24](#)]

Georgios Amanatidis, Sophie Klumper, Evangelos Markakis, Guido Schäfer, **Artem Tsikiris**. 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, Minor Revision at ACM TEAC)*. [[arXiv](#)]

Evangelos Markakis, Georgios Papastropoulos, **Artem Tsikiris**. 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](#)]

¹The authors are listed in alphabetical order.

Evangelos Markakis, Alkmini Sgouritsa, **Artem Tsikiris**. 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). [\[full version\]](#) | [\[my talk at WINE21\]](#)

Evangelos Markakis, **Artem Tsikiris**. 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 Tsikiris**. 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 Birmpas, Evangelos Markakis, Orestis Telelis, **Artem Tsikiris**. 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). [\[full version\]](#)

Georgios Amanatidis, Sophie Klumper, Evangelos Markakis, Guido Schäfer, **Artem Tsikiris**. 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). [\[arXiv\]](#)

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.

[\[thesis\]](#)

Talks and Workshops

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.