Artem **Tsikiridis**

Postdoctoral Researcher

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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*

Publications[1]

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]

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[1]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 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]

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]

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.