

ALKMINI SGOURITSA - CV

Personal Information

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Research Interests

Algorithmic Game Theory, Mechanism Design, Fair Division, Algorithms.

Career

Feb. 23 - present **Assistant Professor** in Department of Informatics, Athens University of Economics and Business
Feb. 23 -present **Research Collaborator** in Archimedes Unit, Research Center Athena
Aug. 19 - Jan. 23 **Assistant Professor** in Computer Science, University of Liverpool
Nov. 21 - Dec. 22 **Visiting Researcher** at Google Research, CA, USA
Sep. 18 - Jul. 19 **Postdoctoral Researcher** in Max Planck Institute for Informatics, Algorithms and Complexity department (Lise Meitner Award Postdoctoral Fellowship)

Education

Feb. 13 - May 17 **PhD** in Computer Science
University of Liverpool, Economics and Computation Group
Topic: Algorithms for Game-Theoretic Environments
Supervisor: Dr. George Christodoulou
Runner up for the 2018 BCS Distinguished Dissertation Award
Sep. 11 - Aug. 12 **MSc** in Computer Science,
University of Edinburgh, Specialization in Theoretical Computer Science
Thesis topic: Online profit-maximizing sampling auctions for digital goods
Supervisor: Prof. Kousha Etessami
Classification: Distinction
Oct. 04 - Mar. 11 **Diploma (MSc & BSc)** in School of Electrical and Computer Engineering
National Technical University of Athens
Thesis topic: Modeling of the cardiovascular system for the quantitative estimation of coronary stenosis
Supervisor: Prof. Philip Constantinou
Average Grade: 8.0 /10.0

Teaching and Professional Experience

- ◇ **Lecturer** for the modules of Department of Informatics, Athens University of Economics and Business:
 - 2023: “Algorithms” (BSc).
 - 2023: “Game Theory and Decision Making” (BSc).
- ◇ **Lecturer** for the modules of Computer Science Department, University of Liverpool:
 - 2016, 2022: “Algorithmic Game Theory” (MSc).
 - 2016, 2022: “Computational Game Theory and Mechanism Design” (BSc).
 - 2019, 2020, 2022: “Database and Information Systems” (MSc).
- ◇ **Teaching assistant** for the modules of Computer Science Department, University of Liverpool:
 - 2013 - 2015: “Computational Auctions and Mechanism Design” (MSc).
 - 2014, 2016: “Database and Information Systems” (MSc).

- ◇ **Project supervisor:** postgraduate, undergraduate and internships [\[list\]](#).
- ◇ **Program Committee Member:** AAMAS '19, SAGT '19, WINE '20, SAGT '22.
- ◇ **(Sub)Reviewer:** SICOMP, TEAC, GEB, SODA, ICALP, ESA, SAGT, WINE, CDC, CIAC, FCT, GDN.

Journal Papers

- ◇ **A Little Charity guarantees Almost Envy-Freeness,**
B.R. Chaudhury, K. Telikepalli, K. Mehlhorn, A. Sgouritsa, SIAM Journal on Computing (SICOMP) 2021. [\[pdf\]](#)
- ◇ **Cost-Sharing Methods for Scheduling Games under Uncertainty,**
G. Christodoulou, V. Gkatzelis, A. Sgouritsa, Operations Research (OR), accepted subject to minor corrections.
- ◇ **An Improved Upper Bound for the Universal TSP on the Grid,**
G. Christodoulou, A. Sgouritsa, SIAM Journal on Computing (SICOMP), accepted subject to minor corrections.
- ◇ **Designing Networks with Good Equilibria under Uncertainty,**
G. Christodoulou, A. Sgouritsa, SIAM Journal on Computing (SICOMP) 2019. [\[pdf\]](#)
- ◇ **Designing Cost-Sharing Methods for Bayesian Games,**
G. Christodoulou, S. Leonardi, A. Sgouritsa, Theory of Computing Systems (TOCS) 2019, invited to Special Issue on Algorithmic Game Theory. [\[pdf\]](#)
- ◇ **On the Efficiency of All-Pay Mechanisms,**
G. Christodoulou, A. Sgouritsa, B. Tang, Algorithmica 2018. [\[pdf\]](#)
- ◇ **On the Efficiency of the Proportional Allocation Mechanism for Divisible Resources,**
G. Christodoulou, A. Sgouritsa, B. Tang, Theory of Computing Systems (TOCS) 2016, invited to Special Issue on Algorithmic Game Theory. [\[pdf\]](#)
- ◇ **Tight Bounds for the Price of Anarchy of Simultaneous First Price Auctions,**
G. Christodoulou, A. Kovács, A. Sgouritsa, B. Tang, ACM Transactions on Economics and Computation (TEAC) 2016. [\[pdf\]](#)

Conference Papers

- ◇ **Improved Price of Anarchy via Predictions.**
V. Gkatzelis, K. Kollias, A. Sgouritsa, X. Tan, ACM Conference on Economics and Computation (EC) 2022. [\[pdf\]](#)
- ◇ **Towards a Characterization of Worst Case Equilibria in the Discriminatory Price Auction,**
E. Markakis, A. Sgouritsa, A. Tsikiris, Conference on Web and Internet Economics (WINE) 2021. [\[pdf\]](#)
- ◇ **Resource-Aware Cost-Sharing Mechanisms with Priors,**
V. Gkatzelis, E. Pountourakis, A. Sgouritsa, ACM Conference on Economics and Computation (EC) 2021. [\[pdf\]](#)
- ◇ **Resource-Aware Protocols for Network Cost-Sharing Games,**
G. Christodoulou, V. Gkatzelis, M. Latifian, A. Sgouritsa, ACM Conference on Economics and Computation (EC) 2020. [\[pdf\]](#)
- ◇ **A General Framework for Energy-Efficient Cloud Computing Mechanisms,**
A. Antoniadis, A. Cristi, T. Oosterwijk, A. Sgouritsa, International Conference on Autonomous Agents and MultiAgent Systems (AAMAS) 2020. [\[pdf\]](#)

- ◇ **A Little Charity guarantees Almost Envy-Freeness**,
B.R. Chaudhury, K. Telikepalli, K. Mehlhorn, A. Sgouritsa, ACM-SIAM Symposium on Discrete Algorithms (SODA) 2020. [[pdf](#)]
- ◇ **Cost-Sharing Methods for Scheduling Games under Uncertainty**,
G. Christodoulou, V. Gkatzelis, A. Sgouritsa, ACM Conference on Economics and Computation (EC) 2017. [[pdf](#)]
- ◇ **An Improved Upper Bound for the Universal TSP on the Grid**,
G. Christodoulou, A. Sgouritsa, ACM-SIAM Symposium on Discrete Algorithms (SODA) 2017. [[pdf](#)]
- ◇ **Designing Cost-Sharing Methods for Bayesian Games**,
G. Christodoulou, S. Leonardi, A. Sgouritsa, International Symposium on Algorithmic Game Theory (SAGT) 2016. [[pdf](#)]
- ◇ **Designing Networks with Good Equilibria under Uncertainty**,
G. Christodoulou, A. Sgouritsa, ACM-SIAM Symposium on Discrete Algorithms (SODA) 2016. [[pdf](#)]
- ◇ **On the Efficiency of the Proportional Allocation Mechanism for Divisible Resources**,
G. Christodoulou, A. Sgouritsa, B. Tang, International Symposium on Algorithmic Game Theory (SAGT) 2015. [[pdf](#)]
- ◇ **On the Efficiency of All-Pay Mechanisms**,
G. Christodoulou, A. Sgouritsa, B. Tang, Annual European Symposium on Algorithms (ESA) 2015. [[pdf](#)]

Honors and Awards

- ◇ Lise Meitner Award Postdoctoral Fellowship from the Max Planck Institute for Informatics (2018 - 2019).
- ◇ Highly commended (2nd position) in the Distinguished (PhD) Dissertation Competition 2018 of the British Computer Society (BCS).
- ◇ Postgraduate research studentship from the School of Electrical Engineering, Electronics and Computer Science, University of Liverpool (Feb 2013 - Jan 2016).
- ◇ Scholarship from the State Scholarships Foundation of Greece (2011 - 2012).
- ◇ Scholarship from the Student Awards Agency for Scotland - Postgraduate Awards (2011 - 2012).
- ◇ Scholarship from the MSc Top Up BURSARY (University of Edinburgh) (2011 - 2012).
- ◇ Silver medal in the 5th Junior Balkan Mathematical Olympiad in Cyprus (June 2001).
- ◇ Bronze medal in the 18th and 20th National Mathematical Olympiads ARCHIMIDES (2001 & 2003).
- ◇ First prize in the mathematical competition EUCLID (2003).

Language Skills

ENGLISH	IELTS (7.5/9.0) (2011) Certificate of Proficiency in English, University of Michigan
FRENCH	Diplôme d'Études en Langue Française (DELFF) 1er Degré.
GREEK	mother tongue.