

ALKMINI SGOURITSA - CV

PERSONAL INFORMATION

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Citizenship Greek

RESEARCH INTERESTS

Algorithmic Game Theory and Mechanism Design, Auctions, Algorithms, Combinatorics.

EDUCATION

Feb. 13 - Spring 2017 (expected) PhD in Computer Science
University of Liverpool, Economics and Computation Group
Topic: Algorithms for Game-Theoretic Environments
Supervisor: Dr. George Christodoulou
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: Dr. 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

JOURNAL PAPERS

- ◇ *Designing Networks with Good Equilibria under Uncertainty*,
G. Christodoulou, A. Sgouritsa, (submitted to SIAM Journal on Computing, SICOMP).
- ◇ *Designing Cost-Sharing Methods for Bayesian Games*,
G. Christodoulou, S. Leonardi, A. Sgouritsa, Theory of Computing Systems (TOCS) 2017, invited to
Special Issue on Algorithmic Game Theory (under preparation).
- ◇ *On the Efficiency of All-Pay Mechanisms*,
G. Christodoulou, A. Sgouritsa, B. Tang, Algorithmica (subject to minor corrections).
- ◇ *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 Compu-
tation (TEAC) 2016. [[pdf](#)]

CONFERENCE PAPERS

- ◇ *An Improved Upper Bound for the Universal TSP on the Grid*,
G. Christodoulou, A. Sgouritsa, ACM-SIAM Symposium on Discrete Algorithms (SODA) 2017 (to appear).
- ◇ *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](#)]

WORKING PAPERS

- ◇ *Cost-Sharing Methods for Load Balancing under Uncertainty*,
G. Christodoulou, V. Gkatzelis, A. Sgouritsa.

TALKS

- ◇ 9th International Symposium on Algorithmic Game Theory (SAGT), Liverpool, UK, 19-21 Sep 2016.
- ◇ ACM-SIAM Symposium on Discrete Algorithms (SODA), Arlington, Virginia, USA, 10-12 Jan 2016.
- ◇ 8th International Symposium on Algorithmic Game Theory (SAGT), Max Planck Institute for Informatics, Saarbrücken, Germany, 28-30 Sep 2015.
- ◇ 23rd European Symposium on Algorithms (ESA), Patras, Greece, 14-16 Sep 2015.
- ◇ 8th, 9th, 10th and 11th Athens Colloquium on Algorithms and Complexity (ACAC), Greece, Aug 2013, 2014, 2015 and 2016.

WORKSHOPS/SUMMER SCHOOLS

- ◇ Complexity and Simplicity in Economics Workshop. Organized by: Tardos, Daskalakis, Nisan, Segal (Economics and Computation program). Simons Institute, Berkeley University of California, 12-16 Oct 2015.
- ◇ Algorithmic Game Theory and Practice. Organized by: Daskalakis, Budish, Ipeiritis, Johari, Parkes, Roughgarden (Economics and Computation program). Simons Institute, Berkeley University of California, 16-20 Nov 2015.
- ◇ Summer School on Matching Problems, Markets, and Mechanisms. Organized by: Hungarian Academy of Sciences. Budapest, Hungary, 24-28 June 2013.
- ◇ Greece Economic and Algorithmic Theory Week. Organized by: Daskalakis, Hartline, Koutsoupias. Santa Maria, Paros, Greece, 25-29 July 2011.

TEACHING EXPERIENCE

- ◇ 2016: **Lecturer** for the MSc module/course “Algorithmic Game Theory”, COMP559, Computer Science department, University of Liverpool.
- ◇ **Teaching assistant** for the MSc modules/courses of Computer Science department, University of Liverpool:
 - 2013 - 2015: “Computational Auctions and Mechanism Design”.
 - 2014, 2016: “Database and Information Systems”.

PROFESSIONAL SERVICE

Subreviewer for SODA '17, WINE '15, CIAC '15, FCT '13 and SAGT '13.

HONORS AND AWARDS

- ◇ 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 and 2003) and 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 (DELF) 1er Degré.