

V. Orestis Papadigenopoulos

Curriculum Vitae

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Research Interests

Topics: Approximation and Online algorithms, Online Learning/ Multi-Armed Bandits, Online Optimization, Combinatorial Optimization

Education

Aug 2016 – **PhD in Computer Science**,
Ongoing *The University of Texas at Austin, Department of Computer Science*,
Research Supervisor: Constantine Caramanis.

Sep 2009 – **Diploma in Electrical and Computer Engineering**,
Oct 2015 *National Technical University of Athens (NTUA), School of Electrical and Computer Engineering*,
GPA: 9.08/10,
Thesis: "Approximation algorithms for scheduling MapReduce jobs", Advisor: Dimitris Fotakis .

Publications

Conferences

- Submitted "Contextual Blocking Bandits", with S. Basu, C. Caramanis and S. Shakkottai
- 2019 "Malleable scheduling beyond identical machines", with D. Fotakis and J. Matuschke, 22nd International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2019)
- 2016 "Scheduling MapReduce jobs under multi-round precedences", with D. Fotakis, I. Milis, V. Vassalos and G. Zois, 22nd International Conference on Parallel and Distributed Computing (EUROPAR 2015)
- 2015 "Scheduling MapReduce jobs and data shuffle on unrelated processors", with D. Fotakis, I. Milis, E. Zampetakis and G. Zois, 14th International Symposium on Experimental Algorithms (SEA 2015)

Journals

- 2020 "Scheduling MapReduce Jobs on Identical and Unrelated Processors", with D. Fotakis, I. Milis, V. Vassalos and G. Zois, *Theory of Computing Systems* 64 (2019): 754-782

Teaching Experience

- Fall 2020 "Combinatorial Optimization", graduate course, Instructor: Constantine Caramanis
- Spring 2020 "Introduction to Optimization", graduate course, Instructor: Constantine Caramanis
- Spring 2019 "Data Science Laboratory", undergraduate course, Instructors: Constantine Caramanis, Alex Dimakis
- Fall 2018 "Artificial Intelligence", undergraduate course, Instructor: Risto Miikkulainen
- Fall 2016 "Computability and Complexity", undergraduate course, Instructors: S. Zachos
- Fall 2015 "Algorithms and Complexity", undergraduate course. Instructors: S. Zachos and D. Fotakis.
- Fall 2012 - "Introduction to Computer Programming", undergraduate course. Instructors: S. Zachos, N. Papaspyrou and D. Fotakis.

Significant Talks

- 2019 "Malleable scheduling beyond identical machines", APPROX 2019, Boston, MA.
- 2018 "On low-rank (quasi-convex) minimization for a wide class of combinatorial problems", INFORMS Annual Meeting 2018, Phoenix, AZ.
- 2018 "Generalized malleable scheduling on uniform and unrelated machines", 13th Athens Colloquium on Algorithms and Complexity, ACAC 2018.

2015 "Scheduling MapReduce jobs and data-shuffle on unrelated machines", diploma thesis presentation at the Computation and Reasoning Laboratory (NTUA).

Graduate Coursework

Graduate Courses at UT Austin

Fall 2016 – EE 381V Advanced Probability in Learning, Inference and Networks, CS 395T Analysis of Boolean Functions,
Fall 2020 CS 395T Online Learning, EE 381V Convex Optimization II, EE 381V Large Scale and Convex Optimization,
EE 381J Probability and Stochastic Processes, CS 388R Randomized Algorithms, CS 383C Numerical
Analysis: Linear Algebra, CS 388M Communication Complexity, CS 396M Advanced Networking Protocols,
CS 395T Approximability, CS 395T Sublinear Algorithms

Graduate Program in Logic, Algorithms and Computation (Audited)

Fall 2014 – Algorithmic Game Theory, Computational Complexity, Computability (Recursion Theory), Algorithmic
Spring 2016 Issues of Social Networks, Network Algorithms and Complexity, Theory of Linear Programming.

Seminars - Study Groups

Fall 2016 Approximation Algorithms, Computation and Reasoning Laboratory (NTUA).
Fall 2014 Markov Chain Monte Carlo Method, Computation and Reasoning Laboratory (NTUA).

Conferences Attended

2019 22nd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems
(APPROX 2019)
2018 INFORMS Annual Meeting 2018
2013 - 2015 8th/9th/10th Athens Colloquium on Algorithms and Complexity, 3rd Athens Probability Colloquium 2015,
1st Algorithmic Game Theory Athens

Peer Reviewing

2016 – 2018 **WINE 2019** - 15th Conference on Web and Internet Economics, **WAOA 2019** - 17th Workshop on
Approximation and Online Algorithms, **MFCS 2018** - 43rd International Symposium on Mathematical
Foundations of Computer Science, **EC 2018** - 19th ACM conference on Economics and Computation, **ESA**
2017 - 25th Annual European Symposium on Algorithms, **ICPP 2017** - 46th International Conference on
Parallel Processing (Track: Algorithms), **SWAT 2016** - 15th Scandinavian Symposium and Workshops on
Algorithm Theory, **ISCO 2016** - 4th International Symposium on Combinatorial Optimization

Awards

2018 Gerondelis Foundation Scholarship.
2016-2020 Provost's Graduate Excellence Fellowship by The University of Texas at Austin.
2015 Thomaideo Award for Excellent Undergraduate Research by the National Technical University of Athens.

Computer Skills

Coding/ DBs C, C++, Python, Java, Matlab, Pascal, Prolog, ML, Haskell, Javascript, PHP, HTML/CSS, MySQL
OS GNU/Linux, MacOS, Windows
Miscellaneous \LaTeX , Microsoft Office, Libre Office, Mathematica, GNUplot

Languages

English Fluent
French Excellent Command
Spanish Basic Communication
Greek Native Speaker

Interests - Hobbies

Music Piano and guitar. Composed the soundtrack of a short film called "Great Rivals".
Writing Former member of the Greek free-press student magazine "Kaleidoscope".
Sports Kick-Boxing.