Antonis Skarlatos

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linkedin, github, bitbucket

Education

2021 - Present	**PhD in Computer Science**.
	- Our group: Dynamic Algorithms Against Strong Adversaries
	- Paris Lodron Universität Salzburg
	- Supervisor: Dr. Sebastian Forster
2018 - 2021 (2.5 years)	**Graduate Student in Theoretical Computer Science**, *CGPA: 9.63/10*.
	- Department of Informatics and Telecommunications, Department of Mathematics, School of Electrical and Computer Engineering
	- National and Kapodistrian University of Athens, National Technical University of Athens
Graduate Thesis	**Approximation Algorithms for the Precedence Constrained Minimum Knapsack and Capacitated Covering Integer Programs**.
	- Supervisor: Prof. Stavros Kolliopoulos
2014 - 2018	**Undergraduate Student in Computer Science**, *CGPA: 8.43/10*.
	- Department of Informatics and Telecommunications
	- National and Kapodistrian University of Athens
Undergraduate Thesis	**Relationship between treewidth and important parameters and how NP-complete problems can be solved in polynomial time in graphs with bounded treewidth**.
	- Supervisor: Prof. Stavros Kolliopoulos
Summer School	**Computer Science Student at the Cornell, Maryland, Max Planck Pre-doctoral Research School 2020**.
	- Attended lectures and interacted with internationally leading scientists.
	- Exposed to state-of-the-art research and discussed how to pursue an academic or industrial research career in computer science.

Work Experience

Internship	**Student Researcher at Max Planck Institute for Informatics**, *November 2020 - April 2021*.
	- Worked on the TSP problem in the 2D plane for the case that the input is a set of rays. We developed a polynomial-time algorithm.
	- Supervisors: Dr. Antonios Antoniadis, Dr. Sándor Kisfaludi-Bak
Freelancing	**Freelance Projects**.
	- Part-time freelance projects in C, C++, Java, Python, PHP.
Open source chat	**Ting**.
	- Ting (https://github.com/dionyziz/ting) is primarily created for educational purposes. It uses DJANGO for the back-end and REACT.JS for the front-end.

University Projects	**ML and Big Data**. - Used the scikit-learn library in Python for classifying articles. - Used the Locality-Sensitive Hashing (LSH) technique for finding the closest curves based on a distance. - Used the LSH technique with minhashing for identifying families based on their internet connection.

Publications

Authors are listed in alphabetic order.

SODA 2024	**Dynamic algorithms for k-center on graphs**. - Authors: Emilio Cruciani, Sebastian Forster, Gramoz Goranci, Yasamin Nazari, Antonis Skarlatos - Symposium on Discrete Algorithms
GandALF 2023	**Fast Algorithms for Energy Games in Special Cases**. - Authors: Sebastian Forster, Antonis Skarlatos, Tijn de Vos, - 14th International Symposium on Games, Automata, Logics, and Formal Verification
ESA 2023	**Bootstrapping Dynamic Distance Oracles**. - Authors: Sebastian Forster, Gramoz Goranci, Yasamin Nazari, Antonis Skarlatos - 31st European Symposium on Algorithms
ESA 2022	**Computing Smallest Convex Intersecting Polygons**. - Authors: Antonios Antoniadis, Mark de Berg, Sándor Kisfaludi-Bak, Antonis Skarlatos - 30th European Symposium on Algorithms
WAOA 2021	**Precedence-Constrained Covering Problems with Multiplicity Constraints**. - Authors: Stavros G. Kolliopoulos, Antonis Skarlatos - 19th Workshop on Approximation and Online Algorithms, 2021

Technical Skills

Prog. Languages (Preferred)	C, C++, Python
Prog. Languages (Used)	Java, C#, PHP, Prolog, Haskell, Javascript, SQL
Skills	Algorithms, Data structures, Graph Theory

Extracurricular Activities

- Presented principles of Theory of Computation and Turing machines to high school students.
- Helped a few students from my high school with some concepts about algorithms.

Hobbies and Interests

Computer Science	Solving algorithmic problems and participating in competitions online (Competitive Programming). Achievements include qualifying for Round 2 of Facebook Cup in 2016, 2017, 2018.
Others	Music, guitar, football (soccer), travelling.