

Panagiotis Kostopanagiotis

 Github |  LinkedIn |  Portfolio |  E-mail

Professional Experience

- **Max Planck Institute for Informatics** **Saarbrücken, Germany**
Research Intern, Theoretical Computer Science, *February 2021-May 2021*
 - Undergraduate Research Fellow on the Algorithms and Complexity Group specializing in Machine-Learning Augmented Algorithms for Robust Online Optimization.
- **Bloomberg LP** **London, UK**
Software Engineering Intern, Financial Analytics, *July 2020 – September 2020*
 - Project: **Quantum Computing for Option Valuation Description**
 - Architected and Implemented an API to price a variety of option contracts.
 - Designed the Algorithm used for the pricing using Quantum Amplitude Estimation.
 - Built a communication protocol to communicate via HTTP Requests with the **IBM Quantum Machines**.
 - Integrated and Deployed the API to the Bloomberg Derivatives Library.
 - Main technologies used: Python, C++, Qiskit, Numpy, Matplotlib, SciPy, Javascript, Typescript.
 - Relative Literature: **Option Pricing Using Quantum Computing**

Education

- **BSc, MSc Electrical and Computer Engineering** **Athens, Greece**
National Technical University of Athens *2015-2021*
Graduated Magna Cum Laude
 - Integrated Bachelor and Master Degree on Electrical and Computer Engineering specializing in Theoretical Computer Science, Operating Systems, Computer Networks and Mathematics.
 - Founder of **Alcoholics-NTUA**, a community aiming to spread CS knowledge across the country.
 - Teaching Assistant: Algorithms and Complexity, Discrete Math.
 - Master Thesis: On the Approximability of Dynamic Min Sum Set Cover.

Honors and Awards

- **International Olympiad In Informatics, Balkan Olympiad in Informatics** *2013-2015*
Ranked 2nd and 3rd nationwide. Participated as a member of the national team.
- **IEEE Xtreme International Programming Competition** *2016, 2017, 2020*
Ranked 55th, 48th and 17th worldwide out of 4500+ teams.
- **ACM/ICPC Southern Eastern Regional Contest** **Bucharest, Romania**
Represented my university in a team of 3. We ranked 19th out of 87 teams. *2018*
- **International Mathematics Competition for University Students** **Blagoevgrad, Bulgaria**
Selected after preliminary round in the university top 4. Received Honorable Mention. *2019*

Conference Publications

- **On the Approximability of Dynamic Min Sum Set Cover** **Glasgow, Scotland**
Colloquium on Automata, Languages and Programming (ICALP 2021) *2021*
- **Reallocating Multiple Facilities on the Line** **Macao, China**
International Joint Conference on Artificial Intelligence (IJCAI 2019) *2019*

Technical Skills

- **Programming:** C, C++, Python, Java, ML, R, Haskell, Prolog, Javascript, Typescript
- **Libraries/Frameworks:** Numpy, Qiskit, Pandas, SciPy, Matplotlib, React.JS, Node.JS, Flask
- **Tools/Technologies:** Git, Github, MySQL, Vim, Bash/Unix Shell, LaTeX