

# 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.*
- **IEEEExtreme 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