

# DIMITRIOS LOLAS

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## EDUCATION

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<b>University of Cambridge</b> B.S. in Mathematics (Cambridge Mathematical Tripos)	<i>October 2019 - June 2022</i>
<b>University of Cambridge</b> Masters in Mathematics (Cambridge Mathematical Tripos)	<i>October 2022 - June 2023</i>
<b>Princeton University</b> PhD in Operations Research and Financial Engineering	<i>August 2023 - Present</i>

## ACADEMIC ACHIEVEMENTS

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<b>Overall Mark 78/100 in Cambridge Part III</b> <i>Distinction (no ranking received yet)</i>	2023
<b>Total Merit 935, Overall Mark 85/100 in Cambridge Part II</b> <i>First Class, ranked 15/243</i>	2022
<b>Total Merit 728, Overall Mark 73/100 in Cambridge Part IB</b> <i>First Class, ranked 57/241</i>	2021
<b>Total Merit 1048/1120 in Cambridge Part IA</b> <i>High First according to the Director of Studies (no official classification due to COVID)</i>	2020
<b>International Mathematical Olympiad</b> <i>1 Silver and 1 Bronze medal, 1 Honorable Mention.</i>	2017-2019
<b>Balkan Mathematical Olympiad</b> <i>1 Silver and 2 Bronze medals.</i>	2017-2019
<b>Junior Balkan Mathematical Olympiad</b> <i>2 Gold Medals.</i>	2015-2016
<b>Greek National Mathematical Olympiad</b> <i>5 Gold and 1 Silver medal.</i>	2014-2019
<b>Member of the Greek National Team in Mathematics for 6 consecutive years.</b>	2014-2019

## RESEARCH AND JOB EXPERIENCE

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<b>Cambridge Summer Research Project</b> I worked on a project in Probability and Markov chains. Directed by Dr. Perla Sousi.	July-August 2021
<b>Huawei Technologies Research</b> I worked on a research project titled High-Dimensional Learning of Road Traffic Dynamic. Using machine learning and mathematics, we studied the problem of allocating green time on traffic lights.	July-September 2022
<b>University of Cambridge Part III Essay</b> I wrote a research essay under the supervision of Professor James Norris about Scaling Limits for Markov Processes.	May 2023

## TECHNICAL WRITING SAMPLES

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Martingales and Random Walks

Mixtilinear Incircles and Excircles and Applications to Mathematical Olympiad Problems

## PROGRAMMING SKILLS AND COMPUTATIONAL PROJECTS

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Python, MATLAB, R

As part of Computer-Aided Teaching of All Mathematics (CATAM) at Cambridge I worked on several computational programming projects, including the following:

1. Matrices over Finite Fields
2. Primality tests
3. Ordinary Differential Equations
4. Option pricing in Mathematical Finance
5. The Diffusion Equation
6. The Continued Fraction Method for Factorization
7. Simulation of Random Samples from Parametric Distributions
8. Permutation Groups

## OTHER ACADEMIC ACHIEVEMENTS

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### USA Team Preparation

June 2018

I was selected as one of the two students from Greece that were given the chance to participate in a summer program at Carnegie Mellon University for outstanding students in mathematics, which was part of the USA team preparation for the International Mathematical Olympiad.

### Summer Math Camp

July 2017-2019

I presented my solutions to problems from the International Mathematical Olympiad to students preparing to participate in mathematical competitions during a 1-week summer camp organized by the Hellenic Mathematical Society.

## LANGUAGES

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English (fluent)

Greek (native)

German (basic)