

# Georgios Fountoukidis

georgefound1998@gmail.com  
+30 6971716471

## EDUCATION

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### BSc. Physics

2016-2019

*Queen Mary University of London*

First class Bachelors degree in Physics. Relevant Modules: Mathematical Techniques 1-4, Introduction to C++ programming, Computational Condensed Matter Physics (Simulations in Fortran), Statistical Data Analysis (Python).

### Lyceum

2015-2016

*School, Greece*

3rd year of Lyceum in Greece, Thessaloniki with an average grade of 18.9/20: advanced topics in mathematics, physics, chemistry, biology and Greek literature.

### Foundation Year

2015-2016

*Network, Thessaloniki*

Parallel foundation year in English with an average grade of 86/100. Modules: Mathematics, Statistics, Computing skills, English.

## SKILLS

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<i>Languages</i>	Greek (mother tongue) English (fluent)
<i>C++</i>	Simulations of particle dynamics.
<i>C</i>	Algorithm to guide a robot through a labyrinth.
<i>Fortran</i>	Simulations of solid materials.
<i>Python</i>	Data analysis, Mathematical Calculations.
<i>Mathematica</i>	Simulations of objects in curved spacetime.
<i>Matlab</i>	Analysis and visualisation of climate data.
<i>OriginPro</i>	Visualisation and analysis of data from experiments.
<i>Excel</i>	Tracking finances and client database (family business), determining service and chore schedule (army unit).
<i>Familiar with</i>	Github, Jira, L <sup>A</sup> T <sub>E</sub> X, SQL, Unreal Engine.

## RELEVANT PROJECTS

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### Robot vehicle experiment project

2016

*Queen Mary University of London*

A team project in the Scientific Measurement course (84.4/100) which included multiple lab based experiments. The project was programming an Arduino robot vehicle in C that would be able to identify blocking objects and escape corners. The project was a success and gave me important insight to programming and its application on machines as well as recording the process and keeping a laboratory book.

### 3-D gas simulation in C++

2017

*Queen Mary University of London*

The final project in the Introduction to C++ Course (93.7/100) was building a simulation of particles in a box while learning the fundamental concepts of C++ to produce statistics of how gas particles behave in approximation. This project helped me understand a lot more about coding and how to set up and run a simulation and also working in an effective and ordered way to detect bugs and solve problems.

### Final project: String motion in curved spacetime

2018-2019

*Queen Mary University of London*

This independent research project involved studying the behaviour of strings in curved spacetime using the Mathematica software. This required the translation of complicated equations into a code that produced a coherent visual representation of the physics involved. A key lesson learned was the multiple ways you can go to solve a problem and the fact that it might be necessary to scrap lot of work for a better alternative.

## EXPERIENCE

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### Business Assistant, Greece

2021-2022

Managing and streamlining the client database, finances, and client communication of our family-run advertising and publishing business. I use tools such as Excel, SQL, and other web services to modernize the company operations, significantly cutting down waste time and minimizing errors due to outdated data handling and communication methods.

### Greek Army Service

2020-2021

Administrative Assistant to the first lieutenant. Duties included managing and archiving communications between units, organizing the work schedule of the soldiers, creating databases in Excel to more effectively store information, and general office and computing assistance. Being the bridge between soldiers and officers was tough and taught me valuable lessons in leadership and how to manage a medium sized group of people with conflicting interests.

### Tutoring Maths and Physics, UK

2019-2020

Tutoring as a part of a voluntary program to help students from disadvantaged backgrounds and also privately with tutoring agencies. Being a tutor has given unique insights into communicating complicated topics to general audiences.