

Daria Mihaila

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PROFILE

As a dedicated and hard-working theoretical physics undergraduate, who is intrinsically curious, passionate and excited by science, I want to gain experience in the research industry through internship opportunities and put my skills to the test.

EDUCATION

University of Birmingham **09/2020 - Current**

Theoretical Physics MSc (1st Class)

- Modules include: Mathematics, Quantum Mechanics 1 and 2, Probability and Statistics, Chaos in Discrete and Dynamical Systems

Queen Anne's School, Caversham

09/2018 - 07/2020

A Levels: Mathemac (A*), Physics (A), Chemistry (A)

- Academic Scholarship and Music Scholarship

National College "Dr. Ioan Mesota" Natural Sciences Profile

09/2016 - 07/2018

Average grade 9.66 (out of 10)

German College "Johannes Honterus"

09/2008 - 07/2016

Average grade 9.79 (out of 10)

SKILLS

- **Coding:**
 - familiarity with **Python** through:
 - The University Computing module
 - Harvard's course CS50 Introduction to Computer Science
 - IBM's Introduction to Quantum Computing course (also learning Qiskit)
 - two years **C++** experience (high school)
 - **C, SQL** through CS50
- **Mathematical thinking:** constantly developed throughout education, and especially since University in the Mathematics Module, Quantum Mechanics 1 and 2 and Chaos in Discrete and Dynamical Systems
- **Problem solving:** developed at university and extracurricular activities and projects, for example: integrating a renewable energy source structure for schools in Uganda through an education charity called Red Earth Education; and also through challenges encountered whilst building a social enterprise with support from the Enactus society
- **Time management:** evident from excellent academic results in parallel with being an academic and music scholar (2018-2020), deputy head girl and building a start up
- **Practical skills:** developed through A2 Chemistry, Physics and University Lab components. Proven ability to follow intricate instructions, analyse obtained results, explain in context and devise further improvements for the experiment

- **Communication:** demonstrated ability to resolve difficult social situations whilst volunteering at the Red Cross, music and art festivals; earning public speaking awards and taking part in debating competitions
- **Teamwork:** Key role in many teams and societies during high school, including: the environment society; founder of debate society and astronomy society; member of Sixth Form leadership team, and also managing teams whilst volunteering at various festivals

WORK EXPERIENCE

Centre for Integrative Neuroscience and Neurodynamics
University of Reading

February 2019

- Work-shadowed Neuroscience researchers, learning about their daily practise and methods
- Gained an insight into design and execution of experiments, data analysis, drawing conclusions and improving the processes
- Learnt about the underlying physical concepts of MRI's and their applications in research

INTERESTS AND ACHIEVEMENTS

- *Languages: native in Romanian, C2 (fluent) in English and C1 (fluent) in German*
- *Played the piano for more than 12 years, taking part in national and international competitions and being awarded a Music Scholarship in Sixth Form (2018-2020), and currently part of a jazz band*
- *Deputy Head Girl in Sixth Form (2019-2020)*
- *Won the Best Delegate Award at Model United Nations High School Conference 2018 and a scholarship to London International Model United Nations 2019*
- *Awarded First Prize at the Grey Coat Foundation Public Speaking Competition 2019*

