Djordje Mihajlovic

Master of Physics student
in Theoretical Physics
University of Edinburgh, UK

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SUMMARY

4th year student at the University of Edinburgh completing a 5 year integrated masters MPhys program in Theoretical Physics.

EDUCATION

Degree	Institute	Board / University	GPA	Year
MPhys Theoretical Physics	School of Physics, University of Edinburgh	Edinburgh University	Ongoing	2019-2024
A Levels	St. John's College, Johannesburgh	CIE	82.75%	2018
IGCSE	Braeburn High School, Nairobi	CIE	85%	2016

FORMAL WORK EXPERIENCE

- **Signature Pubs**   *February 2022 - Current*
  FOH team member at the Auld Hundred Pub, Edinburgh   Edinburgh, United Kingdom
  - Part time work to accommodate University expense
  - Position has helped develop essential communication and teamwork skills, leading the team during busy shifts to ensure the smooth running of the pub.

- **Collective Aid**   *May 2019 - July 2019*
  Social Aid worker   Belgrade, Serbia
  - Social aid work in the Obrenovac refugee camp, Belgrade.
  - Worked to provide Mathematics and introductory English classes to refugees at the Obrenovac camp.

RELEVANT PROJECTS

- **Quantum Computing Project**   *Jan 2023 - Apr 2023*
  School of physics, Edinburgh University   -
  - Collaborative research project of 7 members developing a simulation of Shor's algorithm for quantum computers on classical computers via Python.

- **Senior Honors Project**   *Feb 2023 - May 2023*
  School of physics, Edinburgh University   -
  - Individual extended mathematical derivation of 'the equilibrium behaviour of liquid crystals' following the text 'Broken Living Layers' by J. Toner et. al.

- **Qiskit Quantum Computation course**   *Jan 2023 - ongoing*
  IBM   -
  - Currently enrolled and completing IBM's certified associate developer course on quantum computation using Qiskit.

TECHNICAL SKILLS

- **Programming Languages**: Python, C++
- **Tools and Frameworks**: Pycharm, Jupyter Notebooks, Spyder, Atom, MATLAB & Excel

KEY COURSES TAKEN

- **Physics**: Methods of Theoretical Physics, Condensed Matter Physics, Statistical Mechanics, Thermodynamics, Classical Electrodynamics.
- **Computing & Programming**: Modelling and Visualization in Python, Object Oriented programming in Python, Numerical Methods in Python.
- **Mathematics**: Linear Algebra, Variational Calculus, Methods of Mathematical Physics (PDEs & Asymptotic Integrals), Group Theory, Dynamics & Vector Calculus, Several Variable Calculus & Differential Equations, Probability.

ACHIEVEMENTS

- **Academic award for excellency throughout A levels.**,   *2019*
- **ACT score: 34**,   *2019*
- **Honours Blazer for Academics.**, Awarded for excellent As level results.   *2018*
- **Scholarship recipient to Braeburn High School**,   *2017*
- **UKMT Gold award**,   *2016*
- **Top 1% IGCSE mathematics in East Africa**,   *2015*