

ADDISON OKELL

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SUMMARY

Third year Mathematical Physics student from the University of Waterloo, with three terms of term distinction and one term of deans, honour roll. Excellent analytical skills and experience using Python, Maple, R and LaTeX. Experience researching in an academic environment and a member of the Rocketry club. An interest in Theoretical Physics and Mathematics.

EDUCATION

University of Waterloo

09 2019 – 04 2024

Bachelor of Science, Mathematical Physics - Major Average - 83.0%

Waterloo, Ontario

RELEVANT COURSEWORK

- | | | | |
|------------------------------------|--------------------------------|-------------------|-------------------------|
| • Quantum Mechanics I | • Computational Physics I & II | • Thermodynamics | • Linear Algebra I & II |
| • Electricity and Magnetism I & II | • Classical Mechanics I & II | • Calculus I-III | • ODE I & II |
| | | • Vector Calculus | • Statistics I & II |

RELEVANT EXPERIENCE

University of Waterloo - Faculty of Engineering

01 2022 – 04 2022

Research Assistant

Waterloo, Ontario

- Researching besetting incidents of ships
- Running simulations of ice development at besetting locations
- Reading remote sensing and satellite data
- Creating plots of the data using Python

Evolution Mining

05 2022 – 08 2022

Student Lab Technician

Red Lake, Ontario

- Create a tool in Excel to report accuracy of result
- Write a report on the created tool
- Run assays to find metal content of samples using atomic absorption spectroscopy

TECHNICAL SKILLS

Languages: Python, R, LaTeX, Maple

Python Libraries: Matplotlib, Numpy, Pandas, netCDF4

Developer Tools: Anaconda, Jupiter Notebook, Spyder, R Studio, Overleaf, TeXStudio, Maple

Technologies/Frameworks: Linux, Windows, MacOS

AWARDS

- | | |
|----------------------------|--|
| • Term Distinction - 84.6% | • Term Deans Honors List - 82.5% |
| • Term Distinction - 86.0% | • University of Waterloo Merit Scholarship |
| • Term Distinction - 90.5% | |

EXTRACURRICULAR

UW Rocketry Club

09 2022 – Present

- Analysis for handles for kismet injector valve
- Machining brace for actuation mechanism
- Repairing leaks in valves
- Sourcing parts