

Dylan Hirshon

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in dylanhirshon

Summary

Master of Physics graduate with significant experience performing qualitative data analysis through a combination of statistical and scientific investigation. I have a broad knowledge in the fields of physics, mathematics, and informatics, which has made me comfortable in combining experimental, theoretical, and computational efforts to answer any questions that I am faced with.

I have created several physical simulations using Python, and have written scientific reports to summarize my results. I am a self-motivated worker and am interested in working in a fast-paced and team-friendly environment where I can apply my skills for real-world impact.

Education

University of Edinburgh, Master of Physics with Honours

Sep. 2019 to May 2024

- **Thesis:** "Identifying Obscured Supermassive Black Holes Using X-ray Emissions"
- **Coursework:** Applied Machine Learning, Fourier Analysis and Statistics, Linear Algebra and Several Variable Calculus, Computer Modelling.

Experience

University of Edinburgh / Blue Planet Ecosystems, Microbiology Researcher, Intern

Edinburgh, UK / Vienna, AT

- Developed experimental protocol to induce flocculation within bacteria and algae by researching available literature.
- Identified optimal growth conditions for *C. vulgaris* by monitoring optical densities across different physical conditions.
- In addition to inoculation experiments, welded and sanded PVC material upon visit to host company.
- Wrote a scientific report to serve as a guideline for future experiments.

June 2023 to Aug. 2024
2 months

Margiotta Food & Wine, Cashier

- Customer facing role handling cash transactions.

Edinburgh, UK
June 2022 to Aug. 2023
2 months

Marks Education, Administrative IT Assistant

- Prepared Mac OS hardware for employee usage.
- Produced updated spreadsheets of client data and organized physical file storage.

MD, USA
May 2021 to Aug. 2021
3 months
Part-time

Projects

Physical Simulations in Python

2023-2024

- Simulated how an epidemic may spread following the Susceptible, Infected, Recovered, and Safe (**SIRS**) model.
- Wrote a partial differential equation solver to examine electric and magnetic fields.

Technologies

Languages: Python

Software: Microsoft Office, LaTeX