Patryk Drozd

Personal Info

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About

Student in MSc High Performance Computing with an interest in mathematics, programming, reading, writing, gaming and art. I enjoy learning about complex subjects and developing new skills.

Experience

Teaching assistant / Trinity College Dublin

09/2024 - Present – Dublin, Ireland

Teaching assistant for first year engineering mathematics module MAU11E01. This involves teaching and grading students' assignments.

Research Internship in Data Analysis and CFD / Fraunhofer IWES

06/2024 - 09/2024 – Oldenburg, Germany

This internship took place in an applied research institute on the campus of Universitat Oldenburg. I learned about wind turbines (modeling and optimizing) and worked on benchmarking scripts for a particular site with data masts and wind turbines. This involved developing skills in data analysis and CFD (Computational Fluid Dynamics).

SPUR - Summer Programme for Undergraduate Research / Maynooth University

06/2023 - 08/2023 — Maynooth, Co. Kildare, Ireland

I worked with a Postdoctoral Researcher, to develop skills in machine learning with python and pytorch. I developed models to classify regions of space for whether they form features like black holes or stars, and to upscale coarse snapshots from cosmological simulations.

Private Tutor

01/2023 - 06/2023

Prepared and taught 1 on 1 lessons teaching leaving cert mathematics and physics.

Cashier / Finlays Circle K

02/2022 - 09/2022 — Rathangan Road, Monasterevin, Co. Kildare

I held a part-time position at a petrol station, where I predominantly worked alone, and made sure the shop ran smoothly. I was the cashier, I kept stock on shelves, kept track of cars refueling and helped out customers.

Education

MSc - High Performance Computing / Trinity College Dublin

09/2024 - Expected 09/2025 — Dublin, Ireland

A mathematically inclined high performance computing course.

BSc - Theoretical Physics and Mathematics / Maynooth University

09/2021 - 09/2024 — Maynooth, Co. Kildare, Ireland

A 3 year accelerated Theoretical Physics and Mathematics course.

Leaving Cert / Ardscoil Rath Iomghain

2021

Achieved 566 points with H2 Mathematics and H2 Physics.

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Skills

Programming

Python — Proficient in writing scripts with libraries such as Pytorch, Numpy, Matplotlib and Pandas.
Linux — Very familiar with interfacing with linux machines and HPC systems.

Languages

Fluent in English and Polish.