

Patryk Drozd

Personal Info

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About

Student in MSc High Performance Computing with an interest in mathematics, software, 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 a first year engineering mathematics module. This involves teaching and grading students' assignments.

Research Internship in Data Analysis and CFD / Fraunhofer IWES

06/2024 - 09/2024 - Oldenburg, Germany

I worked on developing benchmarking scripts for a particular site with data masts and wind turbines. This involved developing skills in data analysis and 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.

Education

MSc - High Performance Computing / Trinity College Dublin

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

A mathematically inclined high performance computing course, with a focus on numerical algorithms.

BSc - Theoretical Physics and Mathematics / Maynooth University

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

A 3 year accelerated Theoretical Physics and Mathematics course involving Fluid mechanics, Computational physics, Quantum information processing and pure mathematics.

Skills

Programming

Python — With libraries such as Numpy, Matplotlib, Pandas and Pytorch.

C/C++ — Solid knowledge of C/C++ with ability to write parallel code with libraries such as MPI, and CUDA for GPU programming.

Linux — Using linux machines including university HPC systems and WSL.

Languages

Fluent in English and Polish. Basic German Skills.