

Patrick Mortimer

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Professional Summary — Sailing Instructor and Physicist. Interested in mathematics, computer systems, control systems and lasers.

Skills

Mathematics Real and complex analysis, chaos and dynamical systems

Cloud Oracle Cloud

Languages Python, Bash, JS/HTML

OS Debian, Windows, Ubuntu

Control Systems SISO and MIMO, Frequency and State space control and testing

Physics Quantum mechanics, special and general relativity, quantum matter and light.

Experience

University of Birmingham

Jun 2024 – Aug 2024

Research Intern

- Spearheaded design and testing of a novel design for a gravity gradiometer.
- Used ADVLIGORTs and CDS (both developed for LIGO) to implement real-time processing of data.
- Simulated effects of using the gradiometer in real world testing.
- Measured and compared noise levels to those predicted by theoretical modelling.

Midland Sailing Club

Nov 2022 – Present

Sailing/Windsurf Instructor

- Led sessions for a diverse array of clients.
- Gained experience teaching students with a variety of physical and mental disabilities, using a mix of access and teaching boats.

Dinton Activity Centre

Jan 2020 – Present

Sailing Instructor

- Taught for four summers at Dinton and volunteered two before as an assistant instructor.
- Qualified to teach stages 1-4 on the youth sailing scheme, and the RYA national sailing scheme for adults and teenagers
- Worked in stressful environments and a variety of conditions to deliver successful sessions to a diverse range of clients.
- Independent nature of teaching allowed me to develop an effective personal style of teaching.

Education

University of Birmingham

MSci Physics

- **Courses:** Maths for Physicists, Scientific programming in python
- **Experience:** Design of control systems, seismic isolation, mechanical and electrical systems, electrical signals, SQUIDs, numerical computation.
- Was president of the university windsurf club, and helped recruit new members, lead windsurf sessions, and manage club finances.

The Piggott School

A-Levels

- Achieved A*AA in Maths, Chemistry and Physics.
- Aided the delivery of maths masterclasses to local primary school students.

Interests

Piano and Music Achieved ABRSM grade 8, and received a music scholarship from the University of Birmingham.

Swimming In my spare time I like to volunteer my time at a local swimming pool.