Joseph Dobson

+44 7468 411691 | https://www.linkedin.com/in/joseph-dobson-/ | jdobson@student.ethz.ch

EDUCATION

ETH Zürich, Switzerland

Mathematics Exchange

2021-2022

- **Autumn:** Quantum Information Theory, Mathematical Data Science, Linear and Combinatoral Optimization.
- Spring: Quantum Information Processing, Machine Learning, Causality, Computational Statistics.
- First ever Durham University exchange at ETHZ and Heyning Roelli Scholar.

Durham University, van Mildert College

Durham, UK

MMath Mathematics, Predicted First

2019-2023

Current Grade: 71%.

Relevant Courses: Mathematical Physics, Monte Carlo Simulations, Probability, Modelling.

Wymondham College State Boarding School

Norfolk, UK

• A Levels: Mathematics A*, Further Mathematics A*, Physics B, (AAAA AS-Level).

2011-2018

• GCSEs: 4A*s, 7As.

Skills

Languages: Native English, Fluent in German (B2), Basic Russian (A1), Basic Spanish (A2).

Programming: Experienced with Python, LaTeX, Git, Learning R.

Computing: Comfortable using MacOS, Windows, and the Office Suite.

PROJECTS

SBB/ETH Polyhack 2021 - Python (Pandas, API's, Math), Git

• Built tool that recommends best reachable hike based on weather, feasibility, location, and difficulty.

Thread Portrait Drawer - Python (Pillow, NumPy, Scikit-Image, Matplotlib), Git

• Coded single thread portrait drawing program, much like: https://www.youtube.com/watch?v=XJRVqzoQUG0.

Modelling a suspension bridge – Python (NumPy, Matplotlib), LaTeX

• Modelled the relationship between forces applied to a suspension bridge and the bridges harmonic frequency.

Advent of Code, Codeforces - Python

Employment

Zero Gravity, MyTutor – *Mathematics Tutor, Academic Admissions Mentor*

United Kingdom

- Mentoring disadvantaged students through admissions tests into world class universities.
- March 2021-Present

• Tutoring Mathematics online and in-person.

Gap Year Learning Languages – Sous Chef, Tour Guide

Munich, Germany; St Anton, Austria

• Sous Chef cooking up to 700 dishes a night and waitering in the busiest restaurant of St Anton.

2018-2019

• Learnt Fluent German in a professional environment.

Leadership

Van Mildert College Boat Club - Coach, COVID Officer

Durham, UK

Organised sessions for college athletes and coaching them using my experience at DUBC. Sep 2020 - Current

Wymondham College - Major Cup House Captain, Maths Tutor and Mentor

Norfolk, UK

• Captained the interhouse Music competition to first place. Tutored and consulted maths students.

2016-2018

Interests

Music: Self-taught musician writing and playing for bands on BBC Introducing and venues nationally.

Sport: Durham Development Rowing Squad after highly competitive 4-week trials (GBR High Performance Team). Represented one of the best rowing universities in the UK. Dry Slope Skier, Runner, and Olympic Weightlifter.