# Eric Taylor

London, UK • +44 7756 910615 • elt25@ic.ac.uk

## EDUCATION

**Imperial College London** 2025 – present

*MSc Environmental Data Science and Machine Learning*

- Expected completion: September 2026
- Modules completed (with provisional grades, where received):
  - Numerical Programming in Python (Distinction); Computational Mathematics (Distinction); Data Science and Machine Learning; Deep Learning.

**Pembroke College, University of Cambridge** 2022 – 2025

*BA (Hons) Geography*

- Class I with Distinction; ranked 1st in Physical Geography
- Thesis: 'Quantifying changes to debris thickness and extent on Rongbuk Glacier, Tibet, between 2000-2021 using an energy balance model, thermal imagery, and climate reanalysis data – awarded 91%.
- Final-year papers: Atmospheric Sciences; Glaciology; Natural Hazards; Environmental Data Analysis.

**The Perse School, Cambridge** 2020 – 2022

- A Levels: Mathematics (A*), Further Mathematics (A*), Geography (A*); Pre-U: Physics (D1)

## CONFERENCES

**Conference presentation:**

- Taylor, E. and Dell, R. (2025). *Remote sensing early supraglacial debris evolution on Rongbuk Glacier using an energy balance model, thermal imagery, and climate reanalysis data*. Poster presented at the International Glaciological Society – British Branch 2025, University of Oxford.

## RESEARCH EXPERIENCE

**Undergraduate Dissertation, University of Cambridge** 2024 – 2025

Supervisor: Dr. Rebecca Dell

*Quantifying changes to debris thickness and extent on Rongbuk Glacier, Tibet, between 2000-2021 using an energy balance model, thermal imagery, and climate reanalysis data.*

- Designed and implemented an energy balance framework to derive changes to debris thickness from thermal satellite imagery and climate reanalysis data.
- Processed input and model output data using Google Earth Engine, Python, MATLAB, and QGIS.
- Quantified patterns and trends in debris thickening to identify controls on debris cover development.
- Awarded 91% and the William Vaughan Lewis Prize.
- Nominated by the Department of Geography for undergraduate dissertation prizes at the Royal Geographical Society and British Society for Geomorphology.

**Fieldwork Assistant, Morteratsch Glacier, Switzerland** 2025

- Conducted seven days of fieldwork collecting plant samples in the glacier forefield to support post-glacial vegetation succession analysis.
- Wrote Python scripts to automatically read and process handwritten sample metadata.

**Research Assistant to Mike Hulme, University of Cambridge** 2025

- Processed and analysed climate data using Python to produce figures for forthcoming publications.

## AWARDS

**Department of Geography, University of Cambridge**

- Philip Lake Prize for the best performance in Physical Geography in the Geographical Tripos 2025
- William Vaughan Lewis Prize for a First-Class dissertation in the top 15% of marks 2025

**Pembroke College, Cambridge**

- Multiple college prizes and scholarships for First-Class exam results 2022–2025

## WORK EXPERIENCE

**Stratospheric Platforms Limited** 2024

*Project Intern*

- Developed algorithms to model 5G cell tower coverage and efficiency using MATLAB.
- Analysed spatial data and UK population data to estimate rural/urban 5G user requirements.

## SOCIETIES / LEADERSHIP

**Cambridge University Geographical Society** 2023–2025

*President (2024 – 2025)*

- Led a committee of 12 students and secured additional funding from the Department of Geography.

*Treasurer & Web Officer (2023 – 2024)*

- Modernised the society's website, built accounting templates, and reduced society admin fees.

## TECHNICAL SKILLS

Python (pandas, NumPy, scikit-learn, PyTorch), MATLAB, QGIS, Google Earth Engine

## HOBBIES / INTERESTS

Running, Badminton (Pembroke College 1st Team Captain), Swimming, Piano, Filmmaking, 3D Modelling.