

Oliver Soeser

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Experience

Teaching Support Provider

September 2024 – Current

School of Informatics, The University of Edinburgh

I am part of the course teams for the Introduction to Computation and Object Oriented Programming courses at Edinburgh University. I have listed some of my responsibilities for each course below.

Introduction to Computation (Tutor and Marker):

- Run tutorials teaching functional programming in Haskell and computational logic, such as finite state machines and the sequent calculus.
- Mark and give feedback on students' coursework, guiding progress in their studies.
- Support students with queries about course content, both in tutorials and the course's online forum.

Object Oriented Programming (Tutor and Demonstrator):

- Run lab sessions for students to develop their Java programming skills.
- Support students with questions regarding the course content and coursework.
- Offer guidance for students struggling with the course.

Education

The University of Edinburgh

September 2023 – Current

Computer Science and Mathematics (BSc Hons)

Core courses average: 93%

- Active in TypeSig, the type theory special interest group, with an interest in the formalisation of the foundations of theoretical computer science.
- Working on computer-verifiable proofs of undergraduate mathematical theorems in the Lean interactive theorem prover.
- Class representative on the Staff-Student Liaison Committee.

Brockenhurst College

January 2022 – June 2023

A Levels

Mathematics (A*), Computer Science (A*), and Politics (A*).

Projects

Data Visualisation Engine

[Web Demo](#) 

A data visualisation tool written in pure TypeScript creating intelligent layouts for network graphs, using a physics-based drawing algorithm. The demo uses Edinburgh University course data processed using Python.

Euclid Animated

[GitHub Repository](#) 

A custom Python package extending the Manim animation library to create illustrations explaining and demonstrating postulates from Euclid's Elements, based on Oliver Byrne's colourful edition.

Skills

Languages: English (C2), German (native)

Technologies: Python, C, C++, Java, Haskell, Lean 4, JavaScript, TypeScript

Volunteering

Counting Agent

4 – 5 July 2024

Appointed counting agent at the City of Edinburgh's 2024 UK General Election count.