# Oliver Soeser

◈ Edinburgh, United Kingdom ✉ hello@oliversoeser.com ✇ www.oliversoeser.com ⌨ oliversoeser

## 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. These courses are mandatory for all undergraduate students on Computer Science degrees, and are also taken by many Mathematics and Engineering students as an elective. 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 (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 and theoretical CS special interest group.
- Working on formalisation of mathematics 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 web-based data visualisation tool written in pure TypeScript creating intelligent layouts for network graphs, using a physics-based drawing algorithm. The demo uses College of Science and Engineering course data extracted and 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, Haskell, Java, Lean 4, C#, C++, JavaScript, TypeScript

## Volunteering

**Counting Agent** *4 – 5 July 2024*

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