Coy Zhu
Engineering Undergraduate at Trinity College, University of Cambridge.

ckz20@cam.ac.uk • +44 7491 148465 • coy-z.github.io

Education

Trinity College, University of Cambridge Expected 2027
Engineering BA and MEng
Grades: 4th out of 323 in University of Cambridge and 1st in Trinity College for Part IA (799/900) 2024
Elected Senior Scholar and received the Garrett Fund Prize, for exam performance

53rd International Physics Olympiad 2023
Silver Medal — 55th out of 400+ contestants (32/50)
1st in the UK for the British Physics Olympiad Round 3 and NPL Theoretical Physics Prize

Nottingham High School 2023
4 A* in Further Mathematics, Mathematics, Physics and Chemistry
Distinction in British Mathematics Olympiad (33/60) and full marks in the Senior Maths Challenge
Gold in the UK Chemistry Olympiad Round 1 (72.5/86)
Qualified for the International Chemistry Olympiad UK team selection camp

Experience and Projects

Snake Game
Project September 2024
- Wrote a 500 line OOP-based implementation of the popular game Snake in C++
- Stored data through extensive use of the STL. Used OpenGL for rendering game graphics
- Included several features into the UI, such as togglable help prompts.

Sepal AI Remote
Consultant — Physics Specialist August 2024
- Solved and wrote 8 advanced physics questions for an AI reasoning evaluation dataset
- Streamlined objectives with client AI lab via reviewal feedback loops

British Physics Olympiad Oxford
Lecturer April 2024
- Delivered a 2 hour lecture on AC theory to the top 14 students in the British Physics Olympiad
- Wrote 20 pages of mathematically rigorous supplementary notes with LaTeX
- Tutored a student who subsequently qualified for the International Olympiad of Astronomy and Astrophysics UK team selection camp

Orbyts AGN Research Paper Nottingham
Student Researcher October 2022 – April 2023
- Identified composition of AGN outflow winds by processing and fitting data of emission spectra from the XMM Newton X-ray telescope using Python
- Delivered a final presentation detailing theory, results and conclusions
- Submitted analysis to the Astronomy Theory, Observations and Methods Journal

Societies

Trinity College Engineering Society Cambridge
President October 2023 – Present
- Organising several speaker events and socials for Trinity engineers.
- Reaching out to companies for potential sponsors of the society.
- Efficiently managing the committee workload and aligning team interests.

Skills

Technical: Python, C++, OpenGL, STL, SolidWorks 2022, LaTeX
Language: English (Native fluency), Chinese (Conversational fluency)