Ruth Zhang

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Education

University College London (UCL)   *2023 – Present*
Natural Sciences BSc, Year 2   *Expected to graduate Jul 2026*
Physics & Mathematics and Statistics

Nottingham High School   *2016 – 2023*
A*A*AA at A-level, including Mathematics, Further Mathematics, Physics and Geography
A* in Extended Project Qualification (EPQ)

Experience

UCL Students' Union
Treasurer, Natural Sciences Society   ***May 2024 – Present***
- Collaborated with the committee and other societies to organise and expand event plans.
- Researched and presented the optimal solution for a boat party proposal, then lead communication, adapted to a delayed payment and facilitated ticket adjustments.

UCL
Transition Mentor   ***Aug 2024 – Dec 2024***
- Coordinated timings for weekly meetings session with a group of 12 first-year mentees.
- Presented clearly the researched material, and responded to any specific queries.

Oxfam
Volunteer Sales Assistant, Oxfam Books and Music   ***Sep 2018 – Jun 2023***
- Resolved customer queries on the shop floor as part of a team and worked at the till.
- Conducted research and analysis to price books, CDs and other donated items.

Projects

Science Learning Exhibition
Promotion of a learning programme with focus on equity issues   ***Jan 2025 – Feb 2025***
- Lead the conception and design of a science learning programme directed at 11–13-year-old students from potentially lower socioeconomic backgrounds.
- Prepared presentations of our proposal and further designed an exhibition stand showcasing and promoting our programme in line with our vision.

Programming projects
Simulation of neurosphere growth   ***Jan 2025 – Feb 2025***
- Conducted group research to code a cellular automaton model of neurosphere growth using Python, evaluating its performance and interpreting findings in a report.

EPQ
Medical viability of origami-based designs for stents and surgical retractors   ***Nov 2023 – Jan 2024***
- Explored and planned the project direction, drawing from multiple areas of research, culminating in an analytical final essay.
- Presented my final findings with interactive elements and designed a stand for a marketplace showcase of my project.

Skills

Computer: Proficient in Excel, PowerPoint, Google Slides and Canva
Programming: Experienced in Python and R
Languages: Native English, fluent in Mandarin, learning French
Achievements: Mathematical Olympiad for Girls 2023 Distinction, World Junior Synchronised Skating Championships 2022, Gold Duke of Edinburgh Award
Interests: Figure skating, Taekwondo, Piano