# Yueyang (Luka) Liu

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## Education

**Imperial College London** — London
*MRes Bioengineering – Merit* — *2025 – 2026*
*Thesis: Sarcomeric organisation in the developing zebrafish heart*

**University College London** — London
*BEng Biochemical Engineering – Second Class Honours, Upper Division (68%)* — *2022 – 2025*

**Hills Road Sixth Form College** — Cambridge
*A-Levels: Mathematics (A*), Further Mathematics (A), Physics (A), Computer Science (A)* — *2019 – 2021*

## Research Experience

**Imperial College London | MRes Research Project** — London
*Cardiac Cell Structure Modelling* — *Oct 2025 – Sep 2026*

- Built a Python **image-analysis pipeline**, turning confocal images into measurable data for comparison.
- **Delivered a working model** of heart-muscle reorganisation as a **baseline framework** for future research.
- Identified the model's main weakness and **recommended next steps** for future modelling and experiments.
- Evaluated competing scientific models and methods to **justify the most suitable approach**.
- **Presented** the model and findings as a research poster at Imperial College London.

## Commercial & Applied Projects

**University College London | Plant-Based Adalimumab Biosimilar** — London
*Group Design Project* — *Sep 2024 – Jun 2025*

- Assessed the **commercial viability** of a plant-based monoclonal antibody biosimilar for rheumatoid arthritis.
- Developed a **target-market estimate** and **product profile** based on research findings and market analysis.
- Designed an **end-to-end production plan** for safe manufacture and **presented** it as a poster at UCL.

**University College London | Sustainable Water & Sanitation Project** — London
*Interdisciplinary Team Programme* — *May – Jun 2024*

- **Scoped** a refugee-camp sanitation problem and **recommended resident training** as the most sustainable fix.
- **Applied statistical analysis** to compare interventions; **presented** the team's solution as a poster.

## Work Experience

**MyTutor | Private Tutor** — London
*Online Tutoring* — *Aug 2025 – Present*

- Delivered **200+ lessons** in maths, physics and computer science, earning **20+ five-star reviews**.
- Planned lessons across multiple students and **reported progress to parents and teachers**.

**First Landing Ltd | Tour Leader & Guide** — Cambridge
*International Student Tours* — *Jul 2023*

- **Adapted** itineraries to unexpected changes, keeping student groups **safe and on schedule**.

**Additional roles:** Part-time hospitality roles at four food and drink businesses alongside studies (2023 – Present).

## Leadership & Extracurricular Activities

**UCL Freestyle Dance Society | Treasurer, Publicity Officer, & Dance Teacher** — London
*Student Society* — *2023 – Present*

- Managed finances and event budgets, **securing full funding** through a successful **grant application**.
- Taught **10+ classes** to **30+ students** and reached the **Top 4** in a competitive freestyle battle (2026).

## Skills & Achievements

**Business tools & languages:** Excel, PowerPoint, Word; English (native), Mandarin Chinese (B2)
**Data & analysis:** Python (Pandas, NumPy, Matplotlib), statistical and sensitivity analysis, SQL, data visualisation
**Technical:** MATLAB, mathematical modelling, image analysis (Fiji/ImageJ), Git/GitHub, C# (Unity)
**Achievements:** Product Design Winner and Best Overall Solution, CW Techsters, Cambridge Wireless (2021)