

# Xinyi Lin



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## EDUCATION

### • Imperial College London

Master of Science in Computing

Sep 2023 – Sep 2025

London, United Kingdom

- Graduated with Distinction, ranking in the top 1% of the cohort.

- Built a strong foundation in object-oriented design and software engineering.

- Delivered full-stack web applications across multiple projects, from implementation to deployment.

### • University College London

Sep 2022 – Sep 2023

Master of Science in Health Economics and Decision Science

London, United Kingdom

- Graduated with Distinction; ranked 1st in the cohort; awarded Dean's List.

- Developed rigorous foundations in health economics and medical statistics.

- Applied econometric and statistical modelling to real-world health data for healthcare decision-making and policy evaluation.

### • University of Liverpool

Sep 2018 – Jun 2022

Bachelor of Science in Economics

Liverpool, United Kingdom

- Graduated with First Class Honours, ranking in the top 1% of the cohort.

- Established advanced foundations in microeconomics, macroeconomics, econometrics, and time-series analysis.

- Specialised in finance, with a focus on financial markets and asset pricing.

## PROJECT EXPERIENCE

### • EdgeMedSAM – Efficient SAM Adaptation for Medical Image Segmentation



Mar 2025 – Sep 2025

Imperial College London

London, United Kingdom

- Conducted a large-scale accuracy-efficiency benchmark of SAM-family models across 8 medical imaging modalities.
- Proposed EdgeMedSAM, a parameter-efficient adaptation of EdgeSAM for medical image segmentation.
- Achieved state-of-the-art accuracy-efficiency trade-offs on multiple external datasets with reduced model size and faster inference.

### • Quantitative Evaluation of the Quality of Care Network



Apr 2023 – Apr 2025

University College London

London, United Kingdom

- Performed cross-country and longitudinal quantitative evaluation using multi-wave survey data.
- Validated measurement frameworks via confirmatory factor analysis and reliability testing.
- Modelled cross-country and temporal variation using multivariable regression to generate policy-relevant insights.
- Part of a UKRI-funded project led by UCL; manuscript under review at BMC Health Services Research.

## WORK EXPERIENCE

### • Co-Founder

Jan 2026 – Present (Part-time)

KYG Machinery UK

London, United Kingdom

- Designed and built an end-to-end marketing site with a searchable product catalogue and enquiry flow.
- Built internal data pipelines and admin workflows for product records, inventory updates, and shipment status tracking.

### • Data Analyst Intern

May 2024 – Sep 2024

Suzhou Qigui Metal

Suzhou, China

- Supported the implementation of a NetSuite ERP system, streamlining inventory, order processing, and accounting workflows.
- Analysed sales performance and cash flow metrics to support strategic investment decisions.

### • Research Assistant Intern

Apr 2021 – May 2021

China CITIC Bank

Shanghai, China

- Researched macroeconomic trends and China's fiscal and monetary policy impacts during COVID-19 to support market analysis.
- Extracted and processed financial data from Bloomberg and Wind using SQL and Excel for reporting and monitoring.

## SKILLS

**Programming:** Python, C++, Java, JavaScript

**Statistical Modelling:** R, MATLAB, Stata, EViews, JAGS, OpenBUGS

**Web Development:** HTML, CSS, React, Astro, Flask, REST APIs

**Cloud & DevOps:** Cloudflare, Vercel, Microsoft Azure, Docker, CI/CD, Git, Linux

**Databases:** SQL, Excel VBA