

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

Master of Science in Health Economics and Decision Science

Sep 2022 – Sep 2023

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

Bachelor of Science in Economics

Sep 2018 – Jun 2022

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 🔗

Imperial College London

Mar 2025 – Sep 2025

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 🔗

University College London

Apr 2023 – Apr 2025

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

KYG Machinery UK

Jan 2026 – Present (Part-time)

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

Suzhou Qigui Metal

May 2024 – Sep 2024

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

China CITIC Bank

Apr 2021 – May 2021

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