Pengyu Hao

Mathematics with Data Science · Investment research · Software development

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EDUCATION

London School of Economics and Political Science 09/2026–Present

BSc Mathematics with Data Science.

Brighton College 08/2024–07/2026

A levels: Mathematics, Further Mathematics, Physics, Chemistry, Mandarin. Top 5 in Further Mathematics and Physics; UKMT Senior Gold; FYKOS global top 100.

Prior Park College, Bath 08/2022–07/2024

11 GCSEs, average 8.4; full academic scholarship (top 1% of cohort).

EXPERIENCE

OpenAI Student Collective · Campus Lead 09/2026–Present

- Selected for OpenAI's inaugural UK cohort of 40 Campus Leads; co-lead the LSE student AI community.
- Plan four workshops and a showcase per semester, plus weekly Studio Hours for ChatGPT and Codex projects.

Foresight Fund · Equity Research Intern 07/2026–09/2026

- Built a multi-agent workflow turning company disclosures into financial ledgers and Excel research workpapers.
- Built restaurant-sector valuation models and independently authored a Yum China equity research report.
- Wrote four AI reports on consumer monetisation, white-collar automation, technology transitions and AI in mathematics.

Outclass · Software Architecture Engineer 04/2026–09/2026

- Led token rate-limiting and authorisation-isolation refactors in the teacher-facing agent stack; integrated OCR and deterministic tests.
- Translated education-AI competitive research into product and workflow changes.

Morgan Stanley · Step In, Step Up Insight Programme 02/2026

Divisional sessions, case studies and workshops across IBD, Equity Research, Sales & Trading and Risk Management.

Donghe Venture Capital · Investment Research Intern 06/2024–09/2024

Researched biopharma and heavy industry; contributed to three industry reports and valuation analyses.

PROJECTS & ACADEMIC ACHIEVEMENTS

Local MCP · Agent infrastructure 2026

Built and deployed an OAuth/PKCE-authenticated gateway across six macOS/Linux machines, with session isolation.

AI Chat Exporter · Creator & Maintainer · Open source 03/2026–Present

Built a browser extension with 500+ daily users, exporting ChatGPT, Gemini, Claude, DeepSeek and Grok chats to Markdown and PDF.

Hermes Agent · Nous Research · Open-source contributor 01/2026–Present

Submitted 10+ PRs covering concurrent message routing, session-state isolation and large tool-output compaction.

Chrome Extension Lab · Unreleased prototypes 2026

Developed eight local extensions with concurrent-storage safeguards, backup recovery and automated browser journeys.

CanSat & From Stardust · Team Lead & Editor-in-Chief 2024–2026

Led CanSat design and built multivariate weather/trajectory models; edited the school journal From Stardust.

SKILLS & INTERESTS

Engineering & finance Python, TypeScript, Git, Excel modelling, DCF and company valuation; probability and statistics.

Languages English and Mandarin (native-level); Cantonese (professional working proficiency).

Interests Go 5 dan; classical singing, Trinity Grade 8.