

HARRY MAYNE

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Education

Oxford Internet Institute, University of Oxford

DPhil Social Data Science

Oct. 2023 – Present

- Researching interpretability of AI models. Particularly interested in language models, reliability of AI and AI for healthcare.
- Awarded a full scholarship from the Grand Union DTP (Economic and Social Research Council).

Oxford Internet Institute, University of Oxford

Distinction (77%)

MSc Social Data Science

Oct. 2022 – Aug. 2023

- Ranked 1st/22 for overall exam performance and achieved the highest thesis mark (88%).
- Courses included Applied Machine Learning, Natural Language Processing, Data Analytics at Scale, Frontiers of Data Science and Applied Analytical Statistics.
- Awarded a full scholarship from the Grand Union DTP (Economic and Social Research Council).
- **Thesis:** Unsupervised Learning Approaches to Intensive Care Reform: Opportunities and Challenges.

Selwyn College, University of Cambridge

Double First Class

BA Economics

Oct. 2019 – Jun. 2022

- Ranked 1st/155 and 2nd/155 in econometrics and microeconomics examinations, respectively.
- Awarded the Patrick Cross Prize for exceptional performance in economics.
- Awarded the Corfield Scholarship and Tripos Prizes for academic excellence in economics.
- Courses included Time Series Econometrics, Microeconometrics, Labour Economics and Industrial Economics.
- **Thesis:** A Feast in the Time of Plague: A Theoretical Model of the UK Housing Market During COVID-19.

Royal Grammar School, Guildford

Sep. 2011 – Jul. 2019

- 4 A*s at A Level in Maths, Further Maths, Physics and Economics.
- 11 A*s (or equivalent) at GCSE.
- Upper Sixth Economics Prize, Lower Sixth Economics Prize and honorary scholarship.

Teaching

Oxford Internet Institute, University of Oxford

Sep. 2023 – Dec. 2023

- Teaching Assistant for Applied Analytical Statistics (part of Oxford's Social Data Science MSc course).
- Ran interactive teaching assistant seminars for 35 master's students and 2 PhD students.
- Independently redesigned the seminar syllabus to improve student learning.
- Received extremely positive feedback from students and staff resulting in an offer to retain the role for the 2024-25 academic year.
- Approached to co-author and publish a set of notes with the corresponding lecturer.

Stanford House, Stanford University

Nov. 2023 – Present

- Employed by Stanford University to tutor computer science undergraduate students completing semesters abroad at the University of Oxford.
- Designed and taught 8-week personalised courses in the students' areas of interest (focusing around machine learning, AI and data science).

Oxbridge Formula

Sep. 2022 – Dec. 2022

- Prepared A Level students for University of Cambridge economics entrance exams and interviews.
- Designed and ran mock interviews for students.
- Received positive feedback and offered further roles for the 2023-24 academic year.

Private Tutoring

Sep. 2017 – Present

- Tutored several students through GCSE Mathematics, A Level Mathematics and A Level Economics.
- All students successfully met or exceeded their target grades.

Experience

Bank of England

Jun. 2021 - Aug. 2021

- Penultimate year intern in the general insurance actuarial team regulating UK insurance firms.
- Offered a place on the actuarial graduate programme.

Bank of England

Jul. 2020 - Aug. 2020

- First year intern in the insurance supervision division.
- Selected as one of 9 interns from a pool of 3000 applicants.
- Offered a place on the penultimate year internship programme.

Publications

Identifying ICU Patient Subgroups Using Unsupervised Learning: Cluster Stability and Generalizability. Mayne, H., Parsons, G., Mahdi, A.

Forthcoming

A Review of Clustering Methods for Biomedical Data Science. Multiple authors at the Oxford Internet Institute.

Forthcoming

Additional Skills and Interests

Programming Languages: Python (Pandas, NumPy, Matplotlib, Sklearn...etc), L^AT_EX.

Soft Skills: Public speaking (Grade 8, Distinction), organisation, leadership, presentation.

Other Leadership Roles: Selwyn College Boat Club Captain (2022-2023), Selwyn College JCR Entertainment Officer (2021-2022), Selwyn College JCR Freshers' Representative (2020-2021).

Other Interests: Travel, surfing, and music.