Chris (Yiyuan) Li

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Education

Reed College Expected May 2026
B.A. Mathematics and Computer Science *Current GPA: 3.76/4.0*
Centre for Medieval and Renaissance Studies in Oxford September 2022 - May 2023
Concentration on History of Science and Political Theory

Research Interest

Human-AI Collaboration, Data Science, AI for Science & Social Science

Research Experience

A New Metric for Wealth Index | *Researcher* June 2024 - October 2024 (Continued)

- Used Kentall-Tau distance to develop a new metric for wealth index.
- Applied the Item Response Model to Wealth Index estimation.
- Paper under the supervision of Dr. Adrien Allorant submitted to the Population Association of America 2025.

A Bayesian Revision on the Wealth Index Model | *Researcher* March 2024 - May 2024

- Used Bayesian Statistics to revise the current Wealth Index Model.
- Adopted spatial data to create an informative prior in the new model.

Euclid's Elements in China | *Researcher* March 2023 - May 2023

- Comprehensively studied Euclid's Elements, focusing on its geometric ideas' social impact.
- Conducted an extensive literature review on the translations of Euclid's Elements into Chinese.
- Proposed an explanation for the relationship between Mathematics and Catholic science in late 16^{th} century.

John Locke's Contemporary Responses | *Research Assistant* December 2021 – March 2022

- Worked with Political Science Professor Tamara Metz on John Locke's contemporary responses.
- Wrote an annotated bibliography on Locke's neo-liberal, Marxist, and post-colonialist responses.

Experience

Individual Math Tutoring | *Tutor* Sept. 2023 – Present
Tutoring a Chinese mathematics student in linear algebra and discrete mathematics.

Freelance Writer | *Writer* Sept. 2023 – Present
Engaging actively in mathematics and statistics discussions on math.stackexchange.com and Zhihu.com.

The Queer and Trans STEM Collective | *Member* Sept. 2023 – Present
Participating in the club's activities.

Skills

Coding Languages: R, Python, LaTeX, Ocaml, C, C++
Libraries: tidyverse, NumPy, pandas, PyTorch, OpenCV
Languages: English (Proficiency), Chinese (Native), French (Primary), Latin (Intermediate (Reading))