Hera Brown

hera.brown0707@gmail.com
https://hera-brown.net

Education

University of Oxford MCompSciPhil
Sep. 2022–Jun. 2026

- Working towards a master's degree in Computer Science and Philosophy; will graduate in Summer 2026
- First-class equivalent in third year examinations, equivalent to a first-class bachelor's degree
- Courses taken relevant to research interests: Logic and Proof, Models of Computation, Set Theory, Lambda Calculus and Types, Philosophical Logic

Academic Experience

Research Internship University of Oxford
Dec. 2024–Aug. 2025

- Advised by Dr. Jakub Konieczny; this led to the publication of our paper [1].

Publications

[1] *Decidability of Extensions of Presburger Arithemtic by Hardy Field Functions.*   *Forthcoming*
Hera Brown, Jakub Konieczny

Talks

NB: Slides are available from my website at `hera-brown.github.io/publications.html#Talks`.

[2] *The Philosophy of Computer Science.*   *3rd. May 2025*
Hera Brown

- Given at the Oxford University Computing and Technology Society.

[3] *Decidability of Presburger Arithmetic*   *13th. March 2025*
Hera Brown

- Given at the Oxford University Computing and Technology Society.

[4] *Decidability of Arithmetic Theories*   *26th. February 2025*
Hera Brown

- Given at the St. Catherine's College Exchange Conference.

[5] *Traversing LaTeX*   *2nd. February 2025*
Hera Brown

- Given at a Learn to Code session of the Oxford University Computing and Technology Society.

Other Experience

President Oxford University Computing and Technology Society
Mar. 2023–Mar. 2024

- Oversaw a committee of ten, and in particular helped to organise academic talks each term.

Student Ambassador Dept. of Computer Science, University of Oxford
Dec. 2022–Present

- Helped at four open days over the years; talked to prospective applicants and explained the course to them.

Student Ambassador St. Catherine's College, Oxford
Apr. 2024–Present

- Helped to run a three-day residential for state-school students, giving tours of Oxford and organising activities for the students.