

Harry SPENCER

CONTACT

EMAIL: harry.spencer.22@ucl.ac.uk

URL: hspen99.github.io

EDUCATION

2022— **PhD**, University College, London School of Geometry and Number Theory
Expected to finish by autumn 2026.
EPSRC-funded joint PhD programme between Imperial, King's, and University Colleges.
Supervisor: Vladimir DOKCHITSER

2018–2022 **BA, MA; MMath**, Churchill College, University of Cambridge
Part III Essay: “*Deforming Galois Representations*” | Advisor: Jack THORNE

PRE-PRINTS & PUBLICATIONS

MOTIVIC PIECES OF CURVES: L-FUNCTIONS AND PERIODS

Pre-print, January 2026 ([arXiv](#))

WILD CONDUCTOR EXPONENTS OF CURVES

Submitted, February 2025 ([pdf](#))

CONSTRUCTING FAMILIES OF 3-SELMER COMPANIONS

Res. Number Theory **11**, art. 67 (2025)

EVIDENCE FOR AND AGAINST ZAUNER’S MUB CONJECTURE IN \mathbb{C}^6

With Gary McConnell and Afaq Tahir, *Quantum Inf. Comput.* **21** (2021): 721–736

TEACHING

2023— Teaching Assistant, UCL Department of Mathematics
Responsibilities: Tutorials, marking coursework and exams, supervising undergraduate projects.
Courses: Algebra 1 (tutorials, marking); Algebra 3: Further Linear Algebra, Galois Theory (marking)

ORGANISATION

2025 Organiser, UCL study group
Organising weekly talks on ‘The arithmetic of hyperelliptic curves’

2023–2024 Co-organiser, London Junior Number Theory Seminar
Organising weekly talks aimed at PhD students in number theory.

2022–2023 Chair, LSGNT Student-Staff Liaison Committee
Organising and chairing meetings with senior staff at the LSGNT; representing student views.

INVITED TALKS

- Feb. 2025 CURVES, REPRESENTATION THEORY AND CONDUCTORS
Junior Number Theory Seminar, University of Warwick
- Oct. 2024 WILD CONDUCTOR EXPONENTS OF CURVES
Heilbronn Number Theory Seminar, University of Bristol