

Harry SPENCER

CONTACT

EMAIL: harry.spencer.22@ucl.ac.uk
URL: hspen99.github.io

EDUCATION

- 2022–2026 **PhD**, University College, London School of Geometry and Number Theory
Joint PhD programme between Imperial, King’s, and University Colleges, London.
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

WILD CONDUCTOR EXPONENTS OF CURVES
Pre-print, February 2025 (arXiv:[2409.12688](#))

CONSTRUCTING FAMILIES OF 3-SELMER COMPANIONS
Accepted to appear in *Res. Number Theory* (arXiv:[2502.01351](#))

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

- 2023–2025 Teaching Assistant, UCL Department of Mathematics
Tutorials, marking coursework and exams, supervising undergraduate projects.

ORGANISATION

- 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

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