

Harry SPENCER

CONTACT

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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