

Harry SPENCER

CONTACT

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EDUCATION

2022—2026 **PhD**, UNIVERSITY COLLEGE, LONDON SCHOOL OF GEOMETRY AND NUMBER THEORY
Joint PhD programme between Imperial, King's, and University Colleges, London.
Supervisors: Vladimir DOKCHITSER (primary), David BURNS (secondary).

2018—2022 **BA; MMath**, CHURCHILL COLLEGE, UNIVERSITY OF CAMBRIDGE
Part III Essay: “Deforming Galois Representations” | Advisor: Jack THORNE

PRE-PRINTS & PUBLICATIONS

WILD CONDUCTOR EXPONENTS OF TRIGONAL AND TETRAGONAL CURVES
Pre-print, September 2024
[arXiv:2409.12688](https://arxiv.org/abs/2409.12688)

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.
doi.org/10.26421/QIC21.9-10-1

TEACHING

2023—2025 | Teaching Assistant, UCL Department of Mathematics
Tutorials, marking coursework and exams, supervising undergraduate research 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 members of staff at the LSGNT; representing the views of the student body.

TALKS

AUG. 2024 WILD CONDUCTOR EXPONENTS OF TRIGONAL AND TETRAGONAL CURVES
Y-RANT VI, University of Oxford.

JULY 2024 CLASS FIELD THEORY AND GLOBAL FUNCTION FIELDS
UCL Internal Study Group.

JAN. 2024 THE BIRCH–SWINNERTON-DYER CONJECTURE OVER FUNCTION FIELDS
London Number Theory Study Group, University College, London.

SEPT. 2023 MOTIVIC PIECES OF CURVES
Y-RANT V, University of Cambridge.