

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 CURVES
Pre-print (arXiv:[2409.12688](https://arxiv.org/abs/2409.12688)), February 2025

CONSTRUCTING FAMILIES OF 3-SELMER COMPANIONS
Pre-print (arXiv:[2502.01351](https://arxiv.org/abs/2502.01351)), February 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—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 members of staff at the LSGNT; representing the views of the student body.

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.