

# Harry SPENCER

## CONTACT

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## EDUCATION

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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

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

CONSTRUCTING FAMILIES OF 3-SELMER COMPANIONS  
Pre-print (arXiv:[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

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

## ORGANISATION

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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

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OCT. 2024 WILD CONDUCTOR EXPONENTS OF CURVES  
Heilbronn Number Theory Seminar, University of Bristol.

FEB. 2025 GALOIS THEORY, CURVES AND CONDUCTORS  
Junior Number Theory Seminar, University of Warwick.