

# 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.  
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

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

CONSTRUCTING FAMILIES OF 3-SELMER COMPANIONS  
*Res. Number Theory* **11**, 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

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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 staff at the LSGNT; representing student views.

## INVITED TALKS

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- 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