

# Joshua Wrigley

## Curriculum Vitae

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Building Sophie Germain, 8 place Aurélie Nemours, 75013 Paris

## Appointments

- Jan.–Dec. 2025 **Université Paris Cité** – Paris, France  
Postdoctoral Research Assistant (Chercheur du CNRS),  
Employed on the project: *Topology for Types and Terms*.  
Principal investigator: [Prof. Sam van Gool](#).
- Apr.–Dec. 2024 **Queen Mary University of London** – London, UK  
Postdoctoral Research Assistant,  
Research Co-Lead on EPSRC short project *Toward a Cohomology of Theories*.  
Principal investigator: [Prof. Ivan Tomašić](#).

## Education

- 2020 – 2024 **Università degli Studi dell’Insubria** – Como, Italy  
Dottorato di ricerca in informatica e matematica del calcolo (PhD),  
Thesis: *Doctrinal and Groupoidal Representations of Classifying Topoi*,  
Awarded *cum laude*,  
Supervisor: [Prof. Olivia Caramello](#).
- 2019 – 2020 **Lincoln College, University of Oxford** – Oxford, UK  
Masters in Mathematics (MMath), Classification: First class,  
Dissertation: *Aspects of Stone Duality for Boolean Algebras*,  
Supervisor: [Prof. Hilary Priestley](#).
- 2016 – 2019 **Lincoln College, University of Oxford** – Oxford, UK  
Bachelor of Mathematics (BA), Classification: First class.

## Publications

- 2024 **On Topological Groupoids that Represent Theories**,  
Accepted in *Mathematical Logic Quarterly* (preprint: [arXiv:2306.16331](https://arxiv.org/abs/2306.16331)).
- 2024 **Some Properties of Internal Locale Morphisms Externalised**,  
*Theory and Applications of Categories*, Vol. 41, 2024, No. 35, pp 1160-1202 ([link](#)).
- 2024 **The Representing Localic Groupoid for a Geometric Theory**, with Graham Manuell,  
*Expositions in Theory and Applications of Categories*, 2024, No. 2, pp 1-41 ([link](#)).

## Preprints

- 2024 **Topoi with enough points and topological groupoids**, [arXiv:2408.15848](#).
- 2024 **Existentially closed models and locally zero-dimensional toposes**, with Mark Kamsma, [arXiv:2406.02788](#).
- 2023 **The Geometric Completion of a Doctrine**, [arXiv:2304.07539](#).

## Teaching experience

- 2022 – 2024 **Graduate teaching** (Università degli Studi dell’Insubria)  
• *Topics in category theory* – 36 hrs (course lecturer: [Prof. Olivia Caramello](#)),  
• *Topos theory* – 36 hrs (course lecturer: [Prof. Olivia Caramello](#)).  
*Lectured exercise classes and prepared corresponding lecture notes and problem sheets.*
- 2021 – 2022 **Undergraduate teaching** (Università degli Studi dell’Insubria)  
• *Algebra 1* – 12 hrs (course lecturer: [Prof. Valerio Monti](#)),  
• *Algebra 2* – 12 hrs (course lecturer: [Prof. Valerio Monti](#)),  
• *Geometria 1* – 12 hrs (course lecturer: [Prof. Olivia Caramello](#)).  
*Prepared and taught exam revision lessons, including preparation of problem sheets. Taught in Italian.*

## Invited talks

- Dec. 18, 2024 **Theories, topological groupoids and topoi.**  
[Categorical Logic and Higher Categories](#), University of Manchester, UK.

## Professional activities

### Journal referee

*Theory and Applications of Categories.*

- 2024 **Undergraduate admissions interviewer**  
Natural sciences, [St Edmund’s college](#), Cambridge.
- Sept. 8-9, 2022 **Local Organiser**  
*9<sup>th</sup> Symposium on Compositional Structures*, Como, Italy.

## Languages

English (fluent), Italian (advanced, B2/C1).