

# Andrew Slattery

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🔄 AndrewSlattery

🌐 <https://andrewslattery.github.io/>

## Employment

Apr 2024 –

**University of Cambridge**

*Research Associate*

- Funding provided by EPSRC Scholarship
- Supervisor: Dr Jon Sterling

## Education

Oct 2020 – Mar 2024

**University of Leeds**

*PhD in Category Theory*

- Funding provided by EPSRC Scholarship
- Supervisors: Dr Nicola Gambino, Dr Andrew Brooke-Taylor
- Thesis Title: Commutativity of Relative Pseudomonads

Oct 2019 – Jun 2020

**University of Cambridge**

*Masters of Mathematics (Part III) – Pass*

Oct 2016 – Jun 2019

**University of Cambridge**

*Bachelor of Arts in Mathematics – First*

## Research interests

Category theory, higher category theory, categorical logic, multicategories, type theory, topos theory

## Publications and Pre-prints

2025

1. Arkor, N., Saville, P. & **Slattery, A.** Bicategories of algebras for relative pseudomonads. *preprint* (2025).
2. **Slattery, A.** & Sterling, J. Hofmann–Streicher lifting of fibred categories. *Logic in Computer Science* (2025).

2023

3. **Slattery, A.** Pseudocommutativity and lax idempotency for relative pseudomonads. *Theory and Applications of Categories* (2023).

## Talks and Posters

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| 2025 |  | <b>Logic in Computer Science (LICS) 40</b> , Singapore<br><i>Hofmann–Streicher lifting of fibred categories</i>  |
| 2024 |  | <b>Category Theory 2024</b> , Santiago de Compostela<br><i>Bicategories of algebras for relative pseudomonads</i> (poster)   |
| 2023 |  | <b>University of Manchester Category Theory Seminar</b> , Manchester<br><i>Presheaf Algebras are Cocomplete Categories</i><br><b>Category Theory 2023</b> , Louvain-la-Neuve<br><i>Pseudocommutativity and lax idempotency for relative pseudomonads</i> (poster)<br><b>107th Peripatetic Seminar on Sheaves and Logic (PSSL)</b> , Athens<br><i>Pseudocommutativity for relative pseudomonads</i> |
| 2022 |  | <b>Yorkshire and Midlands Category Theory Seminar 27</b> , Leeds<br><i>Property-like structures and relative pseudomonads</i>  |
| 2021 |  | <b>‘Proofs, Constructions, Computations and Categories’ seminar</b> , Leeds<br><i>The 2-category of algebras over a relative 2-monad</i><br><b>Postgraduate Logic Seminar</b> , Leeds<br><i>Well-quasiorders and Kruskal’s Tree Theorem</i>  |

## Teaching and Administrative Work

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| Oct 2024 –          |  | <b>University of Cambridge</b><br><i>Tutor</i> <ul style="list-style-type: none"><li>• Mathematics Part IB Analysis and Topology</li><li>• Mathematics Part II Graph Theory</li></ul>   |
| Oct 2021 – Mar 2024 |  | <b>University of Leeds</b><br><i>Teaching Assistant</i> <ul style="list-style-type: none"><li>• MATH1055 Numbers and Vectors</li><li>• MATH1050 Calculus and Mathematical Analysis</li><li>• MATH1026 Sets, Sequences and Series</li><li>• MATH1060 Introductory Linear Algebra</li><li>• MATH1025 Number Systems</li></ul> <i>Co-organiser</i> <ul style="list-style-type: none"><li>• Yorkshire and Midlands Category Theory Seminar</li><li>• ‘Proofs, Constructions, Computations and Categories’ seminar</li></ul> |

## Scholarships and Awards

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| Oct 2020 – Apr 2024 |  | EPSRC PhD Scholarship   |
| 2019                |  | Harry Patten Prize for Best Result in Part II Mathematics at Clare  |
| 2017                |  | Amiya Batterji Prize for Best Result in Part I Mathematics at Clare |