

# Laura Bradby

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Last updated: September 2025

## Research interests

Geometric analysis. Currently working on maximum principles for Ricci flow, and uniqueness of Ricci flows from compact 3D Ricci limit spaces.

## Education

PhD student at the University of Warwick 2023-ongoing  
*Supervisors: Prof. Felix Schulze, Prof. Peter Topping*

MMath Mathematics at the University of Oxford 2019-2023  
*Ranked 2<sup>nd</sup> in year group*

## Research experience

Dissertation: On the regularity for elliptic equations and systems 2022-23  
*Supervisor: Prof. Luc Nguyen*

Extended essay: How 'big' is the moduli space of Riemann surfaces? 2021-22  
*Supervisor: Prof. Jason Lotay*

## Academic/Teaching prizes and scholarships

Graduate Teaching Assistant Teaching Prize 2025  
*Warwick Mathematics Institute*

Gibbs Dissertation Prize 2023  
*Oxford Mathematical Institute - joint best Part C dissertation in year group*

Junior Mathematical Prize 2023  
*Oxford Mathematical Institute - exam performance*  
*The only student to win multiple Mathematical Institute prizes in 2023*

Henniker Scholarship 2021-22, 2022-23  
*Trinity College, Oxford - academic achievement*

Stirling Boyd Prize 2022  
*Trinity College, Oxford - academic achievement, contributions to college life*

Henniker Exhibition 2020-21  
*Trinity College, Oxford - academic achievement*

## Teaching and outreach

Teaching assistant at Warwick Mathematics Institute 2023-ongoing  
*Functional Analysis I/II, Theory of PDEs, First year supervisor*

Volunteer with UK Maths Trust 2020-ongoing  
*Mentoring scheme, summer school pastoral lead, summer school staff member, creating resources for schools*

Assorted tutoring and school visits 2016-20  
*Including individual tutoring, lesson planning and delivery, and class support*  
*For a range of ages and abilities*

## Talks

Junior analysis seminar, University of Warwick <i>A localised maximum principle for Ricci flow</i>	October 2025
Postgraduate seminar, University of Warwick <i>The maximum principle (my favourite theorem)</i>	October 2025
Postgraduate seminar, University of Warwick <i>If I made a list of every doughnut, would it be compact?</i>	November 2023
Geometric analysis reading group, University of Warwick <i>Various topics</i>	2023-ongoing

## Conferences

British Isles Graduate Workshop VI: Minimal surfaces (Isle of Wight) <i>Participant, gave lightning talk</i>	September 2025
Talking Maths in Public (Warwick) <i>Participant, exhibitor (mathematical art)</i>	August 2025
Topics in Geometric Analysis conference (Pisa) <i>Participant, poster presented</i>	June 2025
ICMS Conference on Geometric moduli spaces (Edinburgh) <i>Participant</i>	May 2025
Diversity and Decolonisation in Mathematics (Warwick) <i>Participant</i>	April 2025
Third Meeting of the UK Metric Geometry and Analysis network (Oxford) <i>Participant</i>	April 2025
LMS Summer school on Curvature flows and PDE (Cardiff) <i>Participant</i>	July 2024
European School of Differential Geometry (Granada) <i>Participant</i>	June 2024
LMS Undergraduate Summer School (Edinburgh) <i>Participant</i>	August 2022