Laura Flower

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Last updated: September 2026

Research interests

Geometric analysis. Currently working on uniqueness of Ricci flows from certain types of limit spaces, and maximum principles for Ricci flow.

Education

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

MMath Mathematics at the University of Oxford 2019-2023
Ranked 2^{nd} 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

Geometric analysis seminar, Freie Universität Berlin — June 2026
On uniqueness of the Ricci flow from Reifenberg Alexandrov spaces

Geometric analysis seminar, Otto-von-Guericke-Universität Magdeburg — June 2026
On uniqueness of the Ricci flow from Reifenberg Alexandrov spaces

Junior geometry seminar, University of Oxford — February 2026
On uniqueness of the Ricci flow from Reifenberg Alexandrov spaces

Undergraduate mathematics society, University of Warwick — January 2026
The maximum principle (my favourite theorem)

Junior analysis seminar, University of Warwick — October 2025
A sharp local maximum principle for Ricci flow

Postgraduate seminar, University of Warwick — October 2025
The maximum principle (my favourite theorem)

Postgraduate seminar, University of Warwick — November 2023
If I made a list of every doughnut, would it be compact?

Geometric analysis reading group, University of Warwick — 2023-ongoing
Various topics

Conferences

ICMS winter school: PDE in geometry and analysis (Edinburgh) — December 2025
Participant

British Isles Graduate Workshop VI: Minimal surfaces (Isle of Wight) — September 2025
Participant, gave lightning talk

Talking Maths in Public (Warwick) — August 2025
Participant, exhibitor (mathematical art)

Topics in Geometric Analysis conference (Pisa) — June 2025
Participant, poster presented

ICMS Conference on Geometric moduli spaces (Edinburgh) — May 2025
Participant

Diversity and Decolonisation in Mathematics (Warwick) — April 2025
Participant

Third Meeting of the UK Metric Geometry and Analysis network (Oxford) — April 2025
Participant

LMS Summer school on Curvature flows and PDE (Cardiff) — July 2024
Participant

European School of Differential Geometry (Granada) — June 2024
Participant

LMS Undergraduate Summer School (Edinburgh) — August 2022
Participant