

Mara-Ioana Postolache

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Nationality: Romanian
Languages: Romanian (native), English (fluent), German (basic)

Current position

PhD Student, School of Mathematical Sciences, Queen Mary University of London

Areas of specialisation

Geometric Analysis; Mean Curvature Flow; Minimal Surfaces

Education

2025-NOW	PHD, School of Mathematical Sciences, Queen Mary University of London
2024-2025	MMATH (Distinction), Mathematical Tripos, University of Cambridge
2021-2024	BA (Upper Second Class), Mathematical Tripos, University of Cambridge

Publications & talks

PRE-PRINTS

2024	Hyeongeun Kim, Holly Krieger, Mara-Ioana Postolache, Vivian Szeto, “ <i>Hénon maps with many rational periodic points</i> ”, https://arxiv.org/abs/2412.01668
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TALKS

MAR 2025	<i>Otto Calculus and Gradient Flows on the Manifold of Probability Measures</i> , Tomorrow’s Mathematicians Today Conference
DEC 2024	<i>An Introduction to Mean Curvature Flow</i> , Part III Seminar Series
OCT 2024	<i>Otto Calculus and Gradient Flows on the Infinite-Dimensional Manifold of Probability Measures</i> , Summer Research Festival
JUN 2024	<i>The X-Ray Transform and Geometric Inverse Problems</i> , Archimedean Talks
AUG 2023	<i>Polynomials with many Rational Preperiodic Points</i> , CMP Presentation Day

Other Academic

PART III ESSAY

2025 *Manifolds with Non-negative Scalar Curvature*, supervised by Dr Paul Minter

RESEARCH PROJECTS

2024 *Infinite-dimensional geometry of diffusions*, supervised by Prof Clément Mouhot and Amélie Loher

2023 *Polynomials with many rational preperiodic points*, group project with Hyeonggeun Kim and Vivian Szeto, supervised by Prof Holly Krieger

Non-academic

STUDENT SOCIETIES INVOLVED IN

2021-NOW *Student Scout and Guide Organisation* - Member

2021-2025 *Cambridge University Scout and Guide Club* - Chair (2023-2024); Marathon Organiser (2022, 2023); Secretary (2022-2023); Webmaster (2024-2025); Sky Blue Editor (2022-2024)

2023-2025 *Cambridge Hands On Science* - General Committee Member; Summer Roadshow (2023, 2024, 2025); Crash, Bang, Squelch! (2024)

2022-2023 *Emmy Noether Society* - Publicity Officer (2022-2023)

OTHER

2023-2024 *Peterhouse Student Ambassador* - Open Days (July 2023, September 2023, July 2024), Interviews (December 2023)

2022 *Peterhouse Subject Rep* - Mathematics Rep