

Devesh Rajpal

Curriculum Vitae

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📄 devesh-sudo.github.io

Education

- 2024-ongoing **Ph.D. in Mathematics**, *Australian National University, Canberra, Australia.*
- 2021–2023 **Masters in Mathematics**, *Chennai Mathematical Institute, Chennai, India.*
Thesis title : Mean Curvature Flow
- 2020–2021 **Masters 2 in Mathématiques fondamentales**, *Sorbonne Université, Paris, France.*
Thesis title : Ricci flow on Surfaces and Cross Curvature Flow
- 2017–2020 **B.Sc.(Hons) in Mathematics and Physics**, *Chennai Mathematical Institute, Chennai, Tamil Nadu, India.*

Talks

- December 2025 Affine Boosted Gauss Curvature Flow, AustMS Annual Conference
- May 2025 Affine Boosted Gauss Curvature Flow, Australian Geometric PDE Seminar.
- June 2024 Harmonic maps in Higher Dimensions, Australian Geometric PDE Seminar.
- June 2023 Convexity Estimates in Mean Curvature Flow, Australian Geometric PDE Seminar.
- October 2022 Mean Curvature Flow of Hypersurfaces, CMI.

Conferences and Workshops

- December 2025 AustMS Annual Conference 2025, La Trobe University, Melbourne.
- April 2025 Workshop on Geometry, PDE, and Analysis, University of Wollongong, Wollongong.
- Feb 2025 MATRIX-MFO Tandem Workshop: Nonlinear Geometric Diffusion Equations, Creswick.
- Feb 2025 Summer of Heat, ANU.
- August 2024 Harmonic Analysis in Australia, ANU.
- June 2024 The Ninth Pacific Rim Conference in Mathematics, Darwin.

Teaching experience

- Spring 2026 Workshop demonstrator for Differential Geometry, ANU.
- Fall 2025 Workshop demonstrator for Applied Mathematics 2, ANU.
- Fall 2025 Grader for PDE Honours, ANU.
- Spring 2025 Workshop demonstrator for Advanced Analysis 1, ANU.
- Fall 2024 Workshop demonstrator for Mathematics and Applications 2, ANU.
- Fall 2022 Teaching assistant for Analysis 1, CMI.
- Spring 2023 Teaching assistant for Rings and Fields, NPTEL.
- Spring 2023 Teaching assistant for Differential Equations, CMI.

Community service

- 2026 Maths Day Problem Creating team lead
- 2025 Maths Day Problem Creating team member
- 2025 Graduate Colloquium organizer, ANU

Scholarships

- 2024-ongoing ANU PhD scholarship
- 2021-2023 CMI Masters Scholarship
- 2020-2021 PGSM Masters Scholarship
- 2017-2020 CMI Bachelors Scholarship

Other Achievements

1. Third rank in Regional Mathematics Olympiad 2015.
2. Qualified JEE Mains and Advanced.

Extracurricular

1. Class representative for the academic term 2018-2019.
2. Physics Head of STEMS 2019, 2020, an annual math contest organized by CMI students.
3. Coordinator for Tessellate 2019, 2020, the annual CMI fest.
4. Team captain in the Intra college Volleyball tournament, Fall 2022.

Skills

- Programming Languages Haskell, Python
- Tools LaTeX
- Languages Hindi (native), English (fluent)