Devesh Rajpal

Curriculum Vitae

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	Education
2021-2023	Masters in Mathematics, Chennai Mathematical Institute, Chennai, India, (Ongoing). Thesis title: Mean Curvature Flow
2020 - 2021	Masters 2 in Mathématiques fondamentales, Sorbonne University, Paris, France. Thesis title: Ricci flow on Surfaces and Cross Curvature Flow
2017–2020	B.Sc.(Hons) in Mathematics and Physics , <i>Chennai Mathematical Institute, Chennai, Tamil Nadu, India, CGPA : 9.21.</i>
2015–2017	Higher Secondary Education , <i>Dronacharya Public School</i> , <i>Raipur</i> , <i>Chhattisgarh</i> , <i>India</i> , <i>Aggregate - 86.8%</i> .
	Reading Projects
Summer 2022	Reading Project on Ricci flow under Prof. Ben Andrews
	$ullet$ We covered basics of Ricci flow and Hamilton's paper $\it Three-manifolds$ with positive $\it Ricci$ curvature
Summer 2020	Research Project on Spectral Geometry under Prof. Sugata Mondal
	• We covered parts of the paper <i>Berger's Isometric problem and minimal immersion of surfaces</i> by N. Nadirashvilli
Summer 2019	Reading Project on Riemannian Geometry under Prof. Harish Seshadri. Topics covered : • Riemannian Manifolds
	Geodesics and curvature
	Curvature - Topology theorems
Summer 2018	Reading Project on Special Relativity under Prof. Alok Laddha. Topics covered :
	Principles of Special Relativity
	Relativistic Mechanics
	Geodesics and Schwarzchild Geometry
	Talks and Presentations
Fall 2022	Mean Curvature Flow of Hypersurfaces
Spring 2021	Ricci flow on Surfaces and Cross Curvature Flow

Fall 2019 Basics of Homological Algebra in course Commutative Algebra.

Fall 2018 An economic analogy to thermodynamics in course Thermal Physics.

Spring 2018 Bohlin Transformations in course Classical Mechanics 2.

Lectures and Workshops attended

November "Curvature, torsion and the quadrilateral gaps" by Nitin Nitsure, CMI.

2019

July 2019 Advanced Instructional Schools on Riemannian Geometry, IISc.

Scholarships

2020 - 2021 PGSM Masters Scholarship

2017 - 2020 CMI Institutional Fee Waiver

2017 - 2020 CMI Scholarship

Other Achievements

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

Extracurriculars

- 1. Batch representative for academic term 2018-2019.
- 2. Physics Head of STEMS 2019, 2020, an annual math contest organised by CMI students.
- 3. Coordinator for Tessellate 2019, 2020, the annual CMI fest.

Skills

Programming Haskell, Python

Languages

Tools LaTeX

Languages Hindi (native), English (fluent), French(Basic)