

# Devesh Rajpal

## Curriculum Vitae

☎ (+91) 8770264961

✉ [deveshrajpal14@gmail.com](mailto:deveshrajpal14@gmail.com), [devesh@cmi.ac.in](mailto:devesh@cmi.ac.in)

### Education

- 2017–2020 **B.Sc.(Hons) in Mathematics and Physics**, *Chennai Mathematical Institute, Chennai, Tamil Nadu, India.*
- 2015–2017 **Higher Secondary Education**, *Dronacharya Public School, Raipur, Chhattisgarh, India, Aggregate - 86.8%.*
- 2015 **Secondary Education**, *Dronacharya Public School, Raipur, Chhattisgarh, India, CGPA:10.*

### Reading Projects

- 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 Schwarzschild Geometry

### Talks and Presentations

- 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 2019 "Curvature, torsion and the quadrilateral gaps" by Nitin Nitsure, CMI.
- July 2019 Advanced Instructional Schools on Riemannian Geometry, IISc.

### Coursework

- Mathematics Real Analysis, Linear Algebra, Group Theory, Multi-variable Analysis, Probability Theory, Ring and Field Theory, Calculus, Advanced Real Analysis, Complex Analysis, Differential Equations, Topology, Graduate Analysis, Partial Differential Equations, Commutative Algebra, Introduction to Manifolds.
- Physics Classical Mechanics 1 and 2, Electrodynamics, Thermal Physics, Quantum Mechanics 1 and 2, Optics, Laboratory.
- Others Programming in Haskell, English.

## Scholarships

2017 - Institutional Fee Waiver  
Present

2017 - CMI Scholarship  
Present

## 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, an annual math contest organised by CMI students.
3. Coordinator for Tessellate 2019, the annual CMI fest.

## Skills

Programming Languages Haskell, Python

Tools LaTeX

Languages Hindi (native), English (fluent)