

# Siddharth Gurumurthy

## Curriculum Vitae

+91 850 688 5384  
✉ [gsiddharth365@gmail.com](mailto:gsiddharth365@gmail.com)  
✉ [siddharthg@cmi.ac.in](mailto:siddharthg@cmi.ac.in)  
Skype ID: live:siddharth365  
DOB: March 22, 1999

### Education

2017 - **Bachelor of Science (Honours), Mathematics and Computer Science,**  
Present *Chennai Mathematical Institute.*  
Grade : 8.80/10  
Mathematics Grade : 8.76/10

### Talks, Workshops and Lecture Series Attended

- Feb 2019 **R.P. Stanley's solution of Anand-Dumir-Gupta Conjectures about Magic Squares**, *J.K. Verma*, Indian Institute of Technology, Bombay.
- March 2019 **Introduction to Mapping Class Groups**, *Kashyap Rajeevsarathy*, IISER, Bhopal.
- April 2019 **PolyMath14: Groups with norms**, *Apoorva Khare*, Indian Institute of Science, Bangalore.
- May 2019 **AIS Homotopy Theory (Workshop)**, ISI Kolkata.  
Rekha Santhanam, IIT Bombay  
Ajay Singh Thakur, IIT Kanpur  
Debasis Sen, IIT Kanpur  
Somnath Basu, IISER Kolkata  
Samik Basu, ISI Kolkata
- August 2019 **Topology and arithmetic: some real, imaginary and complex bridges, and Points and lines on cubic surfaces**, *Ronno Das*, University of Chicago.
- Nov 2019 **Motivic Homotopy Theory and Applications**, *Anand Sawant*, TIFR.
- Jan 2020 **The language of a model category (Homotopy Type Theory Electronic Seminar Talks)**, *Simon Henry*, University of Ottawa.
- Feb 2020 **NCM Workshop on Global Homotopy Theory**, IIT Bombay.  
(Planned) Stefan Schwede, Mathematisches Institut Universität Bonn  
Rekha Santhanam, IIT Bombay  
Debasis Sen, IIT Kanpur  
Somnath Basu, IISER Kolkata  
Samik Basu, ISI Kolkata

### Reading Projects

- June-July **Model Categories.**  
2019 Under *Prof. Amit Kuber*  
IIT Kanpur.

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## Presentations Given

- July 2019 **Model Categories.**  
Presented sections from Mark Hovey's *Model Categories* to Prof. Amit Kuber.  
Summarised notes available [here](#)
- Nov 2019 **Amenable Groups.**  
Presentation given as part of the *Geometric Group Theory* course. Proved that all abelian groups are amenable, and discussed some corollaries.
- Nov 2019 **Categorical Semantics for Intuitionistic Logic.**  
Presentation given with another student as part of the *Proofs and Types* course. Discussed semantics for Intuitionistic Logic using Bicartesian Closed Categories and Topoi.

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## Teaching Experience

- Jan-April 2019 **Advanced Programming in Python.**  
Served as a Teaching Assistant for this course. Duties involved helping students with questions and creating and grading assignments.

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## Miscellaneous

- Academic:
1. Institutional Fee Waiver by Chennai Mathematical Institute.
  2. Passed the Regional Mathematics Olympiad in 2014 and 2015, and the Zonal Informatics/Computing Olympiad in 2015 and 2016. These are the first stages of IMO and IOI programs respectively.
  3. Got the *Certificate of Merit* for the Indian National Mathematics Olympiad, 2016. This is the second stage of the IMO program.
- Languages: English, Hindi and Tamil.
- Interests: Chess and Classical Music.