Siddharth Gurumurthy

Curriculum Vitae

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▬▬▬ Education

2017 - 2020	**Bachelor of Science (Honours), Mathematics and Computer Science**, *Chennai Mathematical Institute* Grade : 8.82/10
2020 - 2021	**Master of Science, Mathematics**, *University of Western Ontario* Average grade: 94.12/100
2021 -	**PhD, Mathematics**, *University of Rochester*

▬▬▬ Selected Conferences and Workshops Attended

May 2019	**AIS Homotopy Theory (Workshop)**, ISI Kolkata
Nov 2019	**Motivic Homotopy Theory and Applications**, *Anand Sawant*, TIFR
Feb 2020	**NCM Workshop on Global Homotopy Theory**, IIT Bombay
May 2022	**Algebraic structures in topology**, San Juan, Puerto Rico
July 2022	**Homotopical Methods in Fixed Point Theory**, University of Colarodo, Boulder
Nov 2022/23	**BUGCAT**, Binghamton University
March 2023	**Homotopy theory in honor of Paul Goerss**, Northwestern University
June 2023	**Scissors Congruence, Algebraic K-Theory, and Trace Methods**, Indiana University

▬▬▬ Reading Projects

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

Expository Talks

Nov 2019	**Amenable Groups**
Nov 2019	**Categorical Semantics for Intuitionistic Logic**
Dec 2020	**Elementary Topoi**
Dec 2020	**A categorical Brown's Representability Theorem**
Mar 2021	**On Hilbert's 17th problem using Model Theory**
June 2021	**The Joyal Model Structure**
April 2022	**Elliptic Curves, Formal Groups and Cohomology Theories**
Sep 2022	**Stable Homotopy Theory: History and Motivation**
March 2023	**Stacks in Homotopy Theory**
Sep 2023	**On the Hopf Invariant One problem**
Dec 2023	**Combinatorial Species: Investigating the zoo of structures**

Teaching Experience

Teaching Assistant

Spring 2019	**APRG**, *Advanced Programming in Python*, Chennai Mathematical Institute
Spring 2020	**MATH 1120B**, *Fundamental Concepts of Mathematics*, Western University
Fall 2021	**MATH 265**, *Functions of a Real Variable*, University of Rochester
Spring 2022	**MATH 235**, *Linear Algebra*, University of Rochester
Fall 2022	**MATH 141**, *Calculus I*, University of Rochester
Spring 2022	**MATH 162**, *Calculus IIA*, University of Rochester
Summer 2023	**MATH 120**, *Precalculus Module*, University of Rochester
Fall 2023	**MATH 201**, *Introduction to Probability*, University of Rochester

Reading Groups for undergrads

Fall 2022/23	**Introduction to Category Theory**

Service

2023	**Rochester Grad Student Seminar**, *Organized the graduate student seminar in the math department*