Chirantan Mukherjee

CONTACT INFORMATION			mukherjeechirantan.github.io/chirantan.mukherjee@studenti.unitn.it	
RESEARCH INTERESTS	Algebraic topology, homotopy theory, and category theory- especially higher category theory			
EDUCATION	University of Trento			
	M.Sc. in Mathematics, Sep 2019–Anticipated Mar 2022			
	 Dissertation Topic: Complete Segal Spaces as a model of Higher Categories Advisor: Nima Rasekh Erasmus+ Study in University of Warsaw 			
	Institute of Mathematics and Applications			
	B.Sc. in Mathematics and Computing, Aug 2015–Apr 2018			
	 Dissertation Topic: Set Theory and Foundation of Mathematics Advisor: Shashi Mohan Srivastava 			
Publications	Preprint Mar 2022	C. Mukherjee. Twisted Arra preprint, (2022). arXiv:2203.01	ow Construction for Segal Spaces. arXiv 788.	
RESEARCH EXPERIENCE	2021-Present	simplicial sets by reviewing ory of model categories. Ex Segal spaces, as a model of Generalizing the twisted are	aracterisation of the Kan model structure on g categorical homotopy theory and the the- amine simplicial spaces, especially complete	
	2017–2018	tion by trigonometric series the general notion of topolo • Examine how Cantor devel taking indefinite derivatives • Understanding Gödel's and	loped the notion of transfinite numbers by	
Honors and Awards	2021–2022 2020–2021 2017 2015–2018			

Research	2022	Higher Category Lecture, Australian National University		
Schools and		Instructors: Yuki Maehara		
Internships	2021	Masterclass on Topological Field Theories and Factorization Homology,		
Attended		University of Copenhagen		
		Instructors: Adrien Brochier; Quantum character varieties and TFTs, and		
		Claudia Scheimbauer; Dualizabitility, higher categories and TFTs		
	2021	EPFL Topology Seminar Spring 2021, EPFL		
		Seminar on algebraic topology and category theory		
	2021	Intensive Research Programme: Higher Homotopical Structures, Centre de		
		Recerca Matemàtica (CRM)		
		Development of higher-categorical tools for theory and computations in		
	2020	algebraic K-theory and related theories		
		Scuola Matematica Interuniversitaria (Interuniversity Mathematical Sum-		
		mer School), University of Perugia		
		Instructors: Barbara Nelli; Differential geometry, and		
	2017	Frédérichen Robert; Functional Analysis Summer Research Programme, The Institute of Mathematical Sciences		
	2017	Advisor: Pralay Chatterjee		
	2017	Project on basic set topology, Indian Statistical Institute		
	2017	Advisor: Goutam Mukherjee		
		Advisor. Goddain Mukherjee		
TALKS AND PRESENTATIONS	Mar 2021	The $Conf_2$ space of rational homology of S^3 and propagators		
		University of Warsaw		
	Jan 2021	Differentiable manifolds and forms, de Rham cohomology		
		University of Warsaw		
	Dec 2020	Products and cochains of equivariant cohomology theories		
		University of Warsaw		
	Nov 2020	Polish spaces		
		University of Warsaw		
Teaching	$\mathrm{Jun}\ 2017$	Regional Mathematical Olympiad Training Camp		
Experience		Train junior mathematical olympiad 2016 awardees for mathematical		
		olympiad		
	Jun 2017	Training Camp for Pathani Samanta Mathematics Scholarship		
		Nurturing of talents in mathematics from rural India		
	May 2016	Training Camp for Pathani Samanta Mathematics Scholarship		
		Nurturing of talents in mathematics from rural India		
	2015 - 2018	Sunday Morning Problem Solving Classes		
		Interactive classes for school children, with emphasis on children from ver-		
		nacular schools		
TECHNICAL	Languages:	C/C++, Java		
SKILLS	Softwares:	IATEX, Mathematica, Octave		
DVILLO	.5	П / Станования (Станования)		
Relevant	Languages:	English (Fluent), Bengali (Native), Hindi (Native)		
SKILLS	Extra:	Poet (Published a book of poems), Swimmer and Life Guard		
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