Chirantan Mukherjee

Contact Information		f Computer Science y of Western Ontario	 ✓ publish.uwo.ca/~cmukher/ ✓ cmukher@uwo.ca 		
Education	The University of Western Ontario, Canada				
	 Ph.D. in Computer Science, May 2024–present. Member of the ORCCA (Ontario Research Centre for Computer Algebra) Lab. Advisor: Dr. Marc Moreno Maza. Fast track to Ph.D. from M.Sc. in Computer Science, Sep.2023–Apr. 2024. Ph.D. coursework in Mathematics, Sep. 2022–Aug. 2023. 				
	University of Trento, Italy				
	M.Sc. in Advanced Mathematics, Sep. 2019–Mar. 2022.				
	 Dissertation: Complete Segal Spaces as a model of Higher Categories. Advisor: Dr. Nima Rasekh. Erasmus+ Study in University of Warsaw, Poland. 				
	Institute of Mathematics and Applications, India				
	B.Sc. (Honors) in Mathematics and Computing, Aug. 2015–Apr. 2018.				
	Dissertation: Set Theory and Foundation of Mathematics.Advisor: Dr. Shashi Mohan Srivastava.				
Work Experience	The Society of Graduate Students, Canada				
	Ombudsperson, Sep. 2023–present.				
PUBLICATIONS	Submitted Mar. 2022	Chirantan Mukherjee, Nim Segal Spaces. arXiv preprin	a Rasekh. <i>Twisted Arrow Construction for</i> t, 2022. arXiv:2203.01788.		
Talks	Apr. 2024		programs, UWORCS 2024, The University of		
	Jul. 2023		or Higher Dimensional Convex Hulls, Mathe-		
	May 2023	Twisted Arrow Constructio	University of Western Ontario, Canada. <i>n for Segal Spaces</i> , Ottawa Mathematics and		
	Mar. 2023	-	ial Categories, Graduate Student Seminar, The		
	Jul. 2022	University of Western Onta Complete Segal Spaces as a Seminar 2022, University of	Model of Higher Categories, GROOT Summer		
	Jun. 2022		dian Statistical Institute, Kolkata, India.		
	Mar. 2021		$l homology of S^3$ and propagators, University of		
	Jan. 2021		d forms, de Rham cohomology, University of		
	Dec. 2020	•	equivariant cohomology theories, University of		
	Nov. 2020	Warsaw, Poland. <i>Polish spaces</i> , University of	Warsaw, Poland.		

Technical Skills	Languages: Software:	C, C++, Cilk, CUDA, GAP, Java, Julia, Python, SageMath. Google Suites, LATEX, Maple, Mathematica, Microsoft Office.	
Awards and Grants	2024 2023–2024 2022–2023 2021–2022 2020–2021 2015–2018	 Second Place for Best Business Plan, Graduate Students Innovation Scholars 2024, Canada. Western Graduate Funding, The University of Western Ontario, Canada, \$31,950.46. Western Graduate Funding, The University of Western Ontario, Canada, \$28,100. Thesis Research Abroad, University of Trento, Italy, €2,700. Erasmus+ Grant, Italian Erasmus+ Agency, Italy, €6,207. National Board for Higher Mathematics Scholarship, Government of India, India, ₹2,500/month. 	
TEACHING	Courses Winter 2024 Fall 2023 Summer 2023 Winter 2023 Fall 2022 Projects Fall 2022 Other 2022–2023 Jun. 2017 Jun. 2017	 The University of Western Ontario, Canada CS 2214, Discrete Structures for Computing, Teaching Assistant. Teaching, preparing assignments and exercises, and holding weekly office hours. CS 2214, Discrete Structures for Computing, Teaching Assistant. In charge of teaching a class of 226 students and holding weekly office hours. Math 1600, Linear Algebra I, Teaching Assistant. Managing two classes of 45 students each solving weekly problems and grading assignments. Math 1600, Linear Algebra I, Teaching Assistant. Managing a class of 41 students helping them solve weekly problems, conducting bi-weekly quizes and grading them. Math 1228, Methods of Finite Mathematics, Teaching Assistant. Proctoring and marking tests throughout the term. The University of Western Ontario, Canada Sterling Ebel. The Yoneda Lemma. Directed Reading Program. The University of Western Ontario, Canada Math-Physics Accelerator Help Centre Duties both in-person and virtual help centre. Institute of Mathematics and Applications, India Regional Mathematical Olympiad Training Camp Train junior mathematical olympiad 2016 awardees for mathematical olympiad. Training Camp for Pathani Samanta Mathematics Scholarship Nurturing of talents in mathematics from rural India. Training Camp for Pathani Samanta Mathematics Scholarship 	
	2015–2018	Nurturing of talents in mathematics from rural India. Sunday Morning Problem Solving Classes Interactive classes for school children, with emphasis on children from ver nacular schools.	

2024 2022	The Graduate Student Innovation Scholars 2024, The University of Western Ontario, Canada, \$500. Teach graduate students how to generate value from a research technology, HoTTEST Summer School 2022, The University of Western Ontario,
	Canada. Introduction to homotopy type theory and formalization.
2022	Higher Category Lecture, Australian National University, Australia.
2021	Masterclass on Topological Field Theories and Factorization Homology,
	University of Copenhagen, Denmark, €336.07 (University of Copenhagen)
	$+ \in 469.69$ (University of Trento).
2021	EPFL Topology Seminar Spring 2021, EPFL, Switzerland.
	Seminar on algebraic topology and category theory.
2021	Intensive Research Programme: Higher Homotopical Structures, CRM,
	Spain.
	Development of higher categorical tools for theory and computations in
2020	algebraic K-theory and related theories.
2020	Scuola Matematica Interuniversitaria, University of Perugia, Italy.
2017	Summer Research Programme, Institute of Mathematical Sciences, India,
	₹11,000.
2017	Project on basic set topology, Indian Statistical Institute, Kolkata, India.
	2022 2022 2021 2021 2021 2021 2021 2020 2017