Chirantan Mukherjee

CONTACT INFORMATION	Department of Mathematics University of Western Ontario 1151 Richmond Street, Middlesex College London, ON, Canada, N6A 5B7	mukherjeechirantan.github.io/cmukher@uwo.ca		
RESEARCH INTERESTS	Algebraic topology, homotopy theory, and category theory- especially higher category theory			
Education	University of Western Ontario, Canada			
	Ph.D. in Mathematics, Sep. 2022–Anticipated Aug. 2026			
	• Advisor: Dan Christensen			

University of Trento, Italy

M.Sc. in Mathematics, Sep. 2019-Mar. 2022

- Dissertation Topic: Complete Segal Spaces as a model of Higher Categories
- Advisor: Nima Rasekh

Erasmus+ Study in University of Warsaw, Poland.

Institute of Mathematics and Applications, India

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	Chirantan Mukherjee. Twisted Arrow Construction for Segal Spaces. arXiv preprint, 2022. arXiv:2203.01788.
RESEARCH EXPERIENCE	2021–2022 2017–2018	École Polytechnique Fédérale de Lausanne, Switzerland. Indian Statistical Institute, Kolkata, India.
TALKS AND PRESENTATIONS	Jul. 2022 Jun. 2022 Mar. 2021 Jan. 2021 Dec. 2020 Nov. 2020	Complete Segal Spaces as a Model of Higher Categories, GROOT Summer Seminar 2022, University of Notre Dame, US. Higher Category Theory, Indian Statistical Institute, Kolkata, India. The $Conf_2$ space of rational homology of S^3 and propagators, University of Warsaw, Poland. Differentiable manifolds and forms, de Rham cohomology, University of Warsaw, Poland. Products and cochains of equivariant cohomology theories, University of Warsaw, Poland. Polish spaces, University of Warsaw, Poland.
Grants and Awards	2021–2022 2020–2021	Thesis Research Abroad, University of Trento, Italy, €2, 700. Erasmus+ Grant, Italian Erasmus+ Agency, Italy, €6, 207.

RESEARCH SCHOOLS AND INTERNSHIPS ATTENDED	2022 2021	Higher Category Lecture, Australian National University, Australia. Instructors: Yuki Maehara Masterclass on Topological Field Theories and Factorization Homology, University of Copenhagen, Denmark, €336.07+ €469.69.
	2021 2021	Instructors: Adrien Brochier; Quantum character varieties and TFTs, and Claudia Scheimbauer; Dualizabitility, higher categories and TFTs. EPFL Topology Seminar Spring 2021, EPFL, Switzerland. Seminar on algebraic topology and category theory. Intensive Research Programme: Higher Homotopical Structures, CRM,
		Spain. Development of higher-categorical tools for theory and computations in algebraic K-theory and related theories.
	2020	Scuola Matematica Interuniversitaria, University of Perugia, Italy Instructors: Barbara Nelli; Differential geometry, and Frédérichen Robert; Functional Analysis.
	2017	Summer Research Programme, IMSc, India, ₹11,000. Advisor: Pralay Chatterjee
	2017	Project on basic set topology, ISI, Kolkata, India. Advisor: Goutam Mukherjee
TEACHING EXPERIENCE	Jun. 2017	Regional Mathematical Olympiad Training Camp 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 vernacular schools.
TECHNICAL SKILLS	Languages: Softwares:	C/C++, Java IATEX, Mathematica, Octave
RELEVANT SKILLS	Languages: Extra:	English (Fluent), Bengali (Native), Hindi (Native) Poet (Published a book of poems), Swimmer and Life Guard