Chirantan Mukherjee

EDUCATION

CONTACT
Western University
Department of Mathematics
2004 Perth Dr., 102 Middlesex College
London, ON, Canada, N6A 5B7

RESEARCH
INTERESTS
Algebraic topology, homotopy theory, and category theory- especially higher category theory

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Ph.D. in Mathematics, Sep. 2022–Anticipated Aug. 2026

• Advisor: Dan Christensen

Western University, Canada

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	$\begin{array}{c} 2021 – 2022 \\ 2017 – 2018 \end{array}$	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	2022–2026 2021–2022 2020–2021	Western Graduate Funding, Western University, Canada, \$18,196/year. Thesis Research Abroad, University of Trento, Italy, €2,700. Erasmus+ Grant, Italian Erasmus+ Agency, Italy, €6,207.

Math 1600. Linear Algebra I, Teaching Assistant, Western University, Canada. Kanada and Alamaging a class of 41 students helping them solve weekly problems, conducting bi-weekly quizes and grading them. Projects Fall 2022 Fall 2022 Fall 2023 Fall 2024 Fall 2025 Fall 2025 Fall 2025 Fall 2026 Fall 2026 Fall 2026 Fall 2027 Fall 2027 Fall 2027 Fall 2027 Fall 2028 Fall 2029 Fall 2029 Fall 2029 Fall 2029 Fall 2020 Fall 2020 Fall 2020 Fall 2020 Fall 2021 Fall 2020 Fall 2021 Fall 2021 Fall 2022 Fall 2022 Fall 2022 Fall 2022 Fall 2022 Fall 2022 Fall 2023 Fall 2023 Fall 2024 Fall 2024 Fall 2025 Fall 2025 Fall 2025 Fall 2026 Fall 2026 Fall 2026 Fall 2026 Fall 2027 Fall 2027 Fall 2027 Fall 2028 Fall 2028 Fall 2028 Fall 2029 Fall 2020 Fall 2020 Fall 2020 Fall 2021 Fall 2021 Fall 2021 Fall 2022 Fall 2022 Fall 2022 Fall 2022 Fall 2022 Fall 2023 Fall 2023 Fall 2024 Fall 2024 Fall 2025 Fall 2025 Fall 2025 Fall 2026 Fall 2026 Fall 2026 Fall 2027 Fall 2027 Fall 2028 Fall 2028 Fall 2029 Fall 2021 Fall 2029 Fall 2021 Fall 2021 Fall 2021 Fall 2022 Fall 2022 Fall 2022 Fall 2023 Fall 2023 Fall 2024 Fall 2024 Fall 2025 Fall 2025 Fall 2026 Fall 2026 Fall 2026 Fall 2026 Fall 2026 Fall 2026 Fall 2027 Fall 2027 Fall 2028 Fall 2028 Fall 2029 Fa	TEACHING	Courses	
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Heart Hea	EM EMENCE		Canada.
Hall 2022 Math 1228. Methods of Finite Mathematics, Teaching Assistant, Western University, Canada. Proctoring and marking tests throughout the term. Projects Fall 2022 Sterling Ebel. The Yoneda Lemma. Directed Reading Program, Western University, Canada. Other Winter 2023 Math-Physics Accelerator Help Centre Duties both in-person and virtual help centre. Fall 2022 Math-Physics Accelerator Help Centre Duties both in-person and virtual help centre. Jun. 2017 Regional Mathematical Olympiad Training Camp Train junior mathematical Olympiad 2016 awardees for mathematical Olympiad. Jun. 2017 Regional 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 Sanday Morning Problem Solving Classes Interactive classes for school children, with emphasis on children from vernacular schools. RESEARCH SCHOOLS AND INTERNSHIPS ATTENDED RESEARCH 2022 HoTTEST Summer School 2022, Western University, Canada. Introductions to homotopy type theory and formalization. Instructors: Yuki Machara. Masterclass on Topological Field Theories and Factorization Homology, University of Copenhagen, Demmark, €336.07 (University of Copenhagen) + €469.69 (University of Trento). Instructors: Adrien Brochier; Quantum character varieties and TFTs, and Claudia Scheimbauer; Dualizabitility, higher categories and TFTs, and Claudia Scheimbauer; Dualizabitility, higher categories and TFTs, Spain. Development of higher categorical tools for theory and computations in algebraic K-theory and related theories. 2020 Seminar on algebraic topology and category theory. Intensive Research Programme; Higher Homotopial Structures, CRM, Spain. Development of higher categorical tools for theory and computations in algebraic K-theory and related theories. 2020 Seminar on date and the programme of t			
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2017 Project on basic set topology, ISI, Kolkata, India. Advisor: Goutam Mukherjee. Technical Languages: Agda (learning), C/C++, Java Skills Software: Languages: Languages: English (Fluent), Bengali (Native), Hindi (Native)		2017	· · · · · · · · · · · · · · · · · · ·
Advisor: Goutam Mukherjee. TECHNICAL SKILLS Languages: Agda (learning), C/C++, Java LATEX, Mathematica RELEVANT Languages: English (Fluent), Bengali (Native), Hindi (Native)			· ·
TECHNICAL Languages: Agda (learning), C/C++, Java LATEX, Mathematica RELEVANT Languages: English (Fluent), Bengali (Native), Hindi (Native)		2017	
SKILLS Software: LATEX, Mathematica RELEVANT Languages: English (Fluent), Bengali (Native), Hindi (Native)			Advisor: Goutam Muknerjee.
SKILLS Software: LATEX, Mathematica RELEVANT Languages: English (Fluent), Bengali (Native), Hindi (Native)	TECHNICAL	Languages:	Agda (learning), C/C++, Java
Relevant Languages: English (Fluent), Bengali (Native), Hindi (Native)			
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SKILLS Extra: Poet (Published a book of poems), Swimmer and Life Guard			
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