## Daniel Carranza

## Curriculum Vitae

	Education
Fall 2023	Ph.D., Johns Hopkins University
	Mathematics
2022-2023	Program Associate, SLMath (formerly MSRI)
2021-2022	M.Sc., University of Toronto  Mathematics
2017_2021	B.Sc., Western University
2017-2021	Honour's Specialization in Mathematics; minor in Computer Science.
	Research
	Papers
July 2022	The Hurewicz theorem for cubical homology, Preprint
	With C. Kapulkin and A. Tonks
	https://arxiv.org/abs/2207.12500
February 2021	Cubical setting for discrete homotopy theory, revisited, Preprint
	With C. Kapulkin
	https://arxiv.org/abs/2202.03516
February 2021	Homotopy groups of cubical sets, Preprint
	With C. Kapulkin
	https://arxiv.org/abs/2202.03511
January 2021	<b>2-adjoint equivalences in homotopy type theory</b> , <i>Logical Methods in Computer Science</i>
	With J. Chang, C. Kapulkin, and R. Sandford
	https://arxiv.org/abs/2008.12433
	https://lmcs.episciences.org/7124
	Talks
October 2022	<b>Cubical Setting for Discrete Homotopy Theory</b> , AMS Fall Eastern Sectional Meeting, University of Massachusetts Amherst
May 2022	<b>Cubical Setting for Discrete Homotopy Theory</b> , <i>Ontario Combinatorics Workshop</i> , University of Waterloo
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August 2020	Formal Verification of Mathematics, CUMC 2020, Western University
	https://youtu.be/LCW682zcEVs
August 2020	Formalizing 2-Adjoint Equivalences in Homotopy Type Theory, Western Homotopy Theory Seminar, Western University
	https://youtu.be/BIqhGYoo_PU
	Scholarships and Awards
Summer 2021	<b>NSERC Undergraduate Student Research Award</b> , <i>Cubical Methods in Discrete Homotopy Theory</i> , Western University
Summer 2020	<b>NSERC Undergraduate Student Research Award</b> , 2-Adjoint Equivalences in HoTT, Western University
2018-2021	Dean's Honor List
September 2017	Western Scholarship of Excellence
	Teaching Experience
	Teaching Assistant
Winter 2022	Math Learning Centre, University of Toronto
Winter 2022	Engineering Calculus 2, University of Toronto
Fall 2021	Engineering Linear Algebra, University of Toronto
	Other Activities
June 2022	Higher Categories and Categorification, Part Two, Participant, MSRI
February 2020	Higher Categories and Categorification, Research Visit, MSRI
October 2019	Midwest Homotopy Type Theory Seminar, Conference, University of Michigan