

Sihao Ma
Curriculum Vitae
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Department of Mathematics
University of Notre Dame
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Notre Dame, IN 46556

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RESEARCH Homotopy theory, especially in computational and chromatic aspects,
INTERESTS with tools from equivariant and motivic homotopy theory.

EDUCATION	University of Notre Dame	Indiana, USA
	Ph.D. candidate in Mathematics	2020-present
	Advisor: Mark Behrens	
	Peking University	Beijing, China
	B.S. in Mathematics	2016-2020
	Advisor: Houhong Fan	

PAPERS	<i>A proof of the generalized geometric boundary theorem using filtered spectra.</i> 2024. To appear in <i>Topology and its Applications</i> .	arXiv:2309.14650
	<i>The Borel and genuine C_2-equivariant Adams spectral sequences.</i>	arXiv:2208.12883
	Last updated: 05/23/2024.	

TALKS	<i>The Borel and genuine C_2-equivariant Adams spectral sequences.</i>	
	Notre Dame Graduate Student Topology Seminar	03/2024
	<i>The Borel and genuine C_2-equivariant Adams spectral sequences.</i>	
	UCSD Topology Seminar	02/2024
	<i>The Borel and genuine C_2-equivariant Adams spectral sequences.</i>	
	AMS Sectional Meeting Special Session on Homotopy Theory	10/2023
	<i>The Borel and genuine C_2-equivariant Adams spectral sequences.</i>	
	UCSD Topology Seminar	03/2023

TEACHING	Teaching Assistant, Homor Calculus III, University of Notre Dame	Fall 2023
EXPERIENCE	Instructor, Calculus B, University of Notre Dame	Spring 2023
	Teaching Assistant, Calculus II, University of Notre Dame	Fall 2022
	Teaching Assistant, Linear Algebra and Differential Equations, University of Notre Dame	Spring 2022
	Teaching Assistant, Calculus I, University of Notre Dame	Fall 2021
	Teaching Assistant, Mathematical Analysis II, Peking University	Spring 2020
	Teaching Assistant, Mathematical Analysis I, Peking University	Fall 2019

UNDERGRADUATE	<i>The homotopy of tmf at the prime 2.</i>	PDF
RESEARCH	Advised by Zhouli Xu	Summer 2019