

Sihao Ma  
Curriculum Vitae  
August, 2024

Department of Mathematics  
University of Notre Dame  
255 Hurley Hall  
Notre Dame, IN 46556

<https://masihao.github.io/sma2@nd.edu>

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

EDUCATION	<b>University of Notre Dame</b>	Indiana, USA
	Ph.D. candidate in Mathematics	2020-present
	Advisor: Mark Behrens	
	<b>Peking University</b>	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> .	<a href="https://arxiv.org/abs/2309.14650">arXiv:2309.14650</a>
	<i>The Borel and genuine <math>C_2</math>-equivariant Adams spectral sequences.</i>	<a href="https://arxiv.org/abs/2208.12883">arXiv:2208.12883</a>
	Last updated: 05/23/2024.	

TALKS	<i>The Borel and genuine <math>C_2</math>-equivariant Adams spectral sequences.</i>	
	Notre Dame Graduate Student Topology Seminar	03/2024
	<i>The Borel and genuine <math>C_2</math>-equivariant Adams spectral sequences.</i>	
	UCSD Topology Seminar	02/2024
	<i>The Borel and genuine <math>C_2</math>-equivariant Adams spectral sequences.</i>	
	AMS Sectional Meeting Special Session on Homotopy Theory	10/2023
	<i>The Borel and genuine <math>C_2</math>-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 RESEARCH	<i>The homotopy of <math>tmf</math> at the prime 2.</i>	<a href="#">PDF</a>
	Advised by Zhouli Xu	Summer 2019