Connor Malin

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Research interests	algebraic & geometric topology, operads, homotopy calculus	
Education	University of Notre Dame	South Bend, IN
	PhD candidate in Mathematics	2019 – Present
	Adviser: Mark Behrens	
	University of Alabama	Tuscaloosa, AL
	BA, MA in Mathematics	2015 - 2019
	Adviser: Lawrence Roberts	

Papers

An elementary proof of the homotopy invariance of stabilized configuration spaces Connor Malin. to appear in *Proceedings of the AMS*, 2022. **The stable embedding tower and operadic structures on configuration spaces** Connor Malin. 2022.

Seminars organized	Factorization Homology . Notre Dame Graduate Student Topology Seminar.		
	Embedding Calculus . Notre Dame Graduate Student Topology Seminar.		
Invited tells	Spring 2021.		
niviteu taiks	Lafayette Topology Seminar		
	The homotopy theory of configuration spaces. February 2023. University		
	of Alabama Algebra and Topology Seminar		
	Koszul duality and the Lie bracket on the homology of configuration		
	spaces. September 2022. European Autumn School in Topology		
	Duality in topology. August 2022. Notre Dame Math Orientation		
Volunteered talks	An operadic proof of Poincaré-Koszul duality. March 2023. Notre Dan		
	Graduate Topology Seminar		
	An introduction to factorization homology. February 2023. Notre Dame		
	Graduate Topology Seminar Nonabelian Poincaré Duality. February 2023. Notre Dame Graduate Topol		
	ogy Seminar		
	Resolutions of moduli spaces by moduli spaces. October 2022. Notre		
	Dame Graduate Topology Seminar		
	Spectral Lie algebra models for unstable v_n -periodic homotopy theory		
	April 2022. Notre Dame Graduate Topology Seminar		

	Diff isomorphic implies diffeomorphic. September 2021. Notre I	Dame
	Graduate Topology Seminar	
	Demystifying buzzwords: real homotopy theory is derived alg	ebra.
	September 2021. Notre Dame Graduate Seminar	
	Operads and manifold Calculus. March 2021. Notre Dame Graduate T	opol-
	ogy Seminar	
	Homotopy sheaves and manifold calculus. March 2021. Notre Dame G	Grad-
	uate Topology Seminar	
	Funky manifolds. September 2020. Notre Dame Graduate Topology Sen	ninar
	Applications of the Poincaré conjecture. September 2020. Notre I	Dame
	Graduate Topology Seminar	
	Manifold up to homotopy = Poincaré duality + what?. August 2020. N	Notre
	Dame Graduate Seminar	
	Spaces of manifolds, cobordism categories, and the Madsen-Weiss	the-
	orem . July 2020. Notre Dame Oral Exam	
	The geometric model structure on categories. January 2020. Notre I	Dame
	Infinity Category Reading Seminar	
	The Hopf invariant 1 problem via Adams operations. November	2019.
	Notre Dame Graduate Topology Seminar	
	Homotopy and its application to the Brouwer fixed point theo	rem.
	April 2019. Troy MathFest	
	Games on groups. August 2018. University of Alabama Algebra & Topo seminar	ology
	On subsums of series with positive terms. April 2018. University of	Ten-
	nessee Undergraduate Math Conference	
Teaching experience	Teaching assistant, Notre Dame Department of Mathematics:	
Fall 2020-Present	Calculus A, Calculus B, Calculus II, Calculus III	
	Grader, Notre Dame Department of Mathematics:	
	Topology I, Topology II	
Scholarships	Bayer Fellowship (Notre Dame)	2022
and fellowships	Schmitt Fellowship (Notre Dame)	2019
_	Thomas W. Palmer Scholarship (University of Alabama)	2019
	National Merit Scholarship	2015