Porter Morgan pamorgan@umass.edu	
-	Education
2020-Present	University of Massachusetts Amherst - Ph.D. student in Mathematics - Advisor: Inanc Baykur - Expected graduation May 2026 - GPA: 3.97
2014-18	Kenyon College
	B.A. in Mathematics and ClassicsGPA: 3.63
	Awards
2024	Richard Elis Memorial Prize
2020 and 2022	Mathematics fellowship, University of Massachusetts Amherst
-	Papers and preprints
1.	Belted sum decompositions of fully augmented links , with Brian Random, Dean Spyropoulos, Rolland Trapp, and Cameron Ziegler. <i>New York J. Math</i> , 31 (2025):1-42, 2024.
	Talks
July 2024	Braids reunion workshop, hosted by ICERM. Nonorientable Broken Lefschetz Fibrations.
June 2024	Topology Student Workshop at Vanderbilt University. Nonorientable Broken Lefschetz Fibrations.
May 2024	Georgia Topology Conference at University of Georgia (lightning talk). Indefinite folds: a case study.
March 2024	New England Algebraic Topology and Mathematical Physics Seminar at Amherst College. Nonorientable Broken Lefschetz Fibrations.
March 2024	Undergraduate math club at University of Massachusetts Amherst. What's Calc III got to do with it?
February 2024	Reading seminar on automorphism groups of manifolds at University of Massachusetts Amherst. Crash course on hyperbolic geometry in dimension two.

February 2024 Geometric Topology Grad and Postdoc Seminar, on zoom.

Nonorientable Broken Lefschetz Fibrations.

November 2023 Reading seminar on automorphism groups of manifolds at University of Massachusetts Amherst. Extendable diffeomorphisms in the 4-sphere. September 2023 Undergraduate math club at University of Massachusetts Amherst. Getting a handle on manifolds. July 2023 Graduate Student Geometry and Topology Conference, hosted by Harvard, on zoom. Constructing Kirby diagrams of (broken) Lefschetz fibrations in the non-orientable case. February 2023 Math department lunch seminar at Smith College. An overview of the foundations of manifold theory. November 2023 Topological quantum field theory learning seminar. Bicategories and monoidal bicategories. October 2023 Topological quantum field theory learning seminar. Dualizable objects, 1-dimensional TQFTs and cobordism hypothesis. March 2022 Floer homotopy theory reading seminar. Classification of vector bundles. **Teaching** University of Massachusetts Amherst: teaching assistant Winter and summer Differential Equations terms, 2023-4 Spring 2024 Mathematical Computing (Python-based course) Summer 2023 Linear Algebra Spring & Fall terms, Calculus II and Calculus II honors 2020-2023 University of Massachusetts Amherst: grader Spring 2024 and Graduate level Algebraic Topology 2025 Spring 2025 Abstract Algebra II Spring 2025 Complex Variables Fall 2024 Graduate level Point Set Topology

Fall 2024 Graduate level Topological Data Analysis

Fall 2024	Mathematical Modeling
Fall 2024	Calculus III
Fall 2023	Knot Theory
	University of Michigan
Summer 2023	Calculus I instructor at summer connections program, hosted by Ross School of Business
	White Mountain School, Bethlehem NH
2018-2020	High school AP Calculus teacher
2018-2020	High school Precalculus teacher
	Service
2023-4 and 2024-5 school years	Co-chair of Graduate Student Action Committee, University of Massachusetts Amherst math department
2023-5	Referee, Algebraic & Geometric Topology
2023-4 school year	Organizer for reading seminar on automorphism groups of manifolds, University of Massachusetts Amherst
2023-4 school year	Organizer of Undergraduate Math Club, University of Massachusetts Amherst
February 2024	Judge for Hack(h)er codeathon competition at University of Massachusetts Amherst
Fall 2023	Mentor for directed reading program in point set topology, University of Massachusetts Amherst
November 2023	Graduate student panelist Q&A session hosted by Society of Industrial and Applied Math
September 2023	Graduate student panelist at WIMIN conference, hosted by Smith College
Winter 2023	Teaching assistant for math course at Hampshire County Jail in Northampton, MA
2021-2	Recruitment committee for Graduate Student Action Committee, University of Massachusetts Amherst math department
	Other conferences and workshops attended
January 2025	Foliations on 3-manifolds: log cabin workshop in St George, UT

May 2024 Georgia Topology Summer School at the University of Georgia