

Contact Details	Website: prestoncranford.github.io Work Address: Northwestern University Department of Mathematics, 2033 Sheridan Road Evanston, IL 60208 Email Address: prestoncranford2027@u.northwestern.edu
Employment & Education	Ph.D. in Mathematics, current position since 2022 Northwestern University B.S. in Mathematics, 2018 – 2022 Massachusetts Institute of Technology
Research Papers	<i>Generalized Thom Spectra, Conjugate Stacks, and truncated Brown-Peterson Spectra</i> preprint, arxiv:2610.18754 <i>Finding Bounded Simplicial Sets with Finite Homology</i> with Peter Rowley preprint, arXiv:2112.12230 <i>Projective Toric Varieties of Codimension 2 with maximal Castelnuovo–Mumford regularity</i> with Alan Peng, and Vijay Srinivasan Journal of Pure and Applied Algebra, vol. 227, is. 1, Jan. 2023, 107162 <i>Biconed Graphs, Weighted Forests, and H-Vectors of Matroid Complexes</i> with Anton Dochtermann, Evan Haithcock, Joshua Marsh, Suho Oh, and Anna Truman The Electronic Journal of Combinatorics, vol. 28, no. 4, 19 Nov. 2021, 10.37236/9849.
Honors	Simons Dissertation Graduate Research Fellowship, 2025 – 2027 NSF Graduate Research Fellowship, 2022 – 2027
Invited Talks	AMS Special Session on Recent Developments in Homotopy Theory at the 2027 Joint Mathematics Meetings, 2027 January (to occur) University of Chicago Topology Semianr, 2026 October (to occur) Univerisity of Washington Topology Seminar, 2026 March University of Rochester Topology Seminar, 2026 January Texas State REU Visitor Lecture, 2020 July
Contributed Talks	<i>Böksdedt periodicity and the even filtration</i>, Conference on "New Perspectives on Stable Homotopy and Beyond", Bonn, 2026 September Short Communication, ICM 2026, Philadelphia, 2026 July

	<i>$\mathbb{E}_3$-MU-<i>Thom Spectra</i></i> , Young Topologists Meeting 2026, Copenhagen, 2026 July
	<i>$K(1)$-local Power Operations</i> , European Talbot 2025, Kolding, 2025 July
	<i>Syntomic Cohomology of $\mathbb{Z}$ and ℓ</i> , Talbot 2024, Nacadoches, 2024 August
	<i>Finding Bounded Simplicial Sets with Finite Homology</i> , SPUR Conference at Massachusetts Institute of Technology, online , 2021 August
	<i>Projective Toric Varieties of Codimension 2 with maximal Castelnuovo–Mumford regularity</i> , Joint Mathematics Meeting 2021 Undergraduate Poster Session, online, 2021 January
	<i>Equality in the Eisenbud–Goto Conjecture for Certain Toric Varieties</i> , Undergraduate Mathematics Symposium at University of Illinois at Chicago, online, 2020 November
	<i>Bi-coned graphs, edge rooted forests, and Stanley’s h-vector conjecture</i> , Joint Mathematics Meeting 2021 Undergraduate Poster Session, Denver, 2021 January
Organization	Synthetic Spectra Reading Seminar, Northwestern University, 2024 Spring
Expositional Seminar Talks	Prismatic Cohomology of Ring Spectra, University of Washington, 2026 March
	τ -invertible Symnthetic Spectra, Synthetic Spectra Reading Seminar, Northwestern University, 2024 May
	Overview, Synthetic Spectra Reading Seminar, Northwestern University, 2024 March
	Section 3, Seminar on the Chromatic Nullstellensatz, Northwestern University, 2023 April
Teaching	TA, 18.03: Differential Equations, Massachusetts Institute of Technology, 2021 Fall
	TA, 18.02: Multivariable Calculus, Massachusetts Institute of Technology, 2021 Spring
	TA, 18.s097: Introduction to Proof Writing, Massachusetts Institute of Technology, 2021 January
	TA, 18.03: Differential Equations, Massachusetts Institute of Technology, 2020 Fall
Outreach	Math Circle volunteer, Evanston Math Circle, Northwestern University
	Mentor, Directed Reading Program, Northwestern University, 2024 Winter and Spring
	Mentor, Directed Reading Program, Northwestern University, 2023 Fall

Knot Theory Group mentor, PRIMES Circle, Massachusetts Institute of Technology,
2022 Spring

Knot Theory Group mentor, PRIMES Circle, Massachusetts Institute of Technology,
2021 Spring