

Dezhou Li

CONTACT INFORMATION

Location 542 Nightingale, Mathematics Dept, Northeastern University
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EDUCATION

Fall 2019 - Present	Northeastern University	Boston, USA
	Ph.D. in Mathematics Advisor: Ben Knudsen	
Fall 2017 - Spring 2019	University of Southern California	Los Angeles, USA
	M.A. in Mathematics	
Fall 2013 - Spring 2017	Virginia Tech University	Blacksburg, USA
	B.S. in Mathematics Advisor: Peter Linnell	

RESEARCH INTERESTS

My research interest is in algebraic topology, concerning applications of group cohomology to the study of configuration spaces.

TEACHING EXPERIENCE

Directed Reading Program

Spring 2023 Henry Barthelemy, Topic: The introduction of the fundamental group.

Undergraduate Teaching

Spring 2023 Mathematics Thinking, Northeastern
Fall 2021 Mathematics Thinking, Northeastern

Teaching Assisant

Fall 2024	Calculus for Business, Northeastern
Summer 2024	ODE and Linear Algebra, Northeastern
Fall 2023	Probability and Statistics, Northeastern
Summer 2023	Number Theory 1, Northeastern
Summer 2023	Calculus 3 , Northeastern
Summer 2022	ODE and Linear Algebra, Northeastern
Spring 2022	Calculus 1, Northeastern
Summer 2021	ODE and Linear Algebra, Northeastern
Spring 2021	ODE and Linear Algebra, Northeastern
Fall 2020	Calculus 2, Northeastern
Summer 2020	ODE and Linear Algebra, Northeastern
Spring 2020	ODE and Linear Algebra, Northeastern
Fall 2019	Calculus 3, Northeastern
Spring 2016	Mutivariable Calculus, VT

PUBLICATIONS

In Preparation

2024 *The Cartan–Leray spectral sequence of the braid group.*

CONFERENCES AND TALKS

Invited Talks

- Dec 2024 *The Cartan–Leray spectral sequence of the braid group.* Topology Seminar. Northeastern University
- Nov 2024 *The Cartan–Leray spectral sequence of the braid group.* Graduate Student Seminar. Northeastern University
- July 2023 *The Cartan–Leray spectral sequence of the braid group.* Graduates Reminisce Online On Topology (GROOT) Summer Seminar.
- Mar 2023 *Understanding the cohomology of unordered configuration space of R^n using spectral sequences.* Graduate Student Seminar. Brandeis University
- Oct 2022 *Computing the configuration space of k unordered points over R^n using spectral sequences.* Graduate Student Seminar. Northeastern University

Contributed Talks

- Oct 2024 *The wreath product of spectral sequences for symmetric groups.* Binghamton University Graduate Combinatorics, Algebra, and Topology Conference. Binghamton University
- Nov 2023 *The Cartan–Leray spectral sequence of the braid group.* Binghamton University Graduate Combinatorics, Algebra, and Topology Conference. Binghamton University

Attended Conferences

- Oct 2024 Binghamton University Graduate Combinatorics, Algebra, and Topology Conference. Binghamton University
- Nov 2023 Binghamton University Graduate Combinatorics, Algebra, and Topology Conference. Binghamton University
- Apr 2023 Mid-Atlantic Topology Conference. University of Pennsylvania.
- Apr 2023 NEAT MAPS Conference. Northeastern University.
- Nov 2022 Binghamton University Graduate Combinatorics, Algebra, and Topology Conference. Binghamton University
- Jun 2022 Canada-Mexico-USA Conference in Representation Theory, Noncommutative Algebra, and Categorification. Northeastern University.
- Jun 2022 Union College Mathematics Conference. Union College.
- Oct 2021 Conference on Compactifications, Configurations, and Cohomology. Northeastern University.
- Oct 2019 Topology Kickoff Mini-Conference. Northeastern University.