

# Michael Ben-Zvi

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## Current Position

Visiting Assistant Professor, Bowdoin College

2020-2021

## Previous Positions

Norbert Wiener Assistant Professor, Tufts University

2019-2020

## Education

Ph.D. Mathematics, Tufts University, 2019.

Advisor: Kim Ruane

M.S. Mathematics, Tufts University, 2015.

A.B. Mathematics, Minor in Education Studies, Bowdoin College, 2013.

Cum Laude

## Research Interests

Geometric group theory,  $CAT(0)$  groups, boundaries of groups, relatively hyperbolic groups, Artin and Coxeter groups.

## Preprints and Publications

M. Ben-Zvi, R. Kropholler, and R. Lyman, *Folding for cube complexes*. In preparation.

M. Ben-Zvi and R. Kropholler, *Boundaries of right-angled Artin groups*. arXiv:1910.07560. Accepted, Proceedings of the AMS.

M. Ben-Zvi, *Boundaries of groups with isolated flats are path connected*. arXiv:1909.12360. Submitted.

Undergraduate Research: M. Ben-Zvi, A. Ma, and M. Reyes, *A Kochen-Specker theorem for integer matrices and noncommutative spectrum functor* (with an appendix by Alexandru Chirvasitu), Journal of Algebra **491** (2017) 280-313 (34 pages).

## Teaching Experience

### Bowdoin College

Introduction to Mathematical Reasoning (two sections, remote, upcoming)	Spring 2021
Integral Calculus (two section, remote)	Fall 2020

### Tufts University

Introduction to Statistics	Spring 2020
Calculus II	Spring 2020
Ordinary Differential Equations	Fall 2019
Graduate Development Seminar	Spring 2019
Calculus II (recitation leader)	Spring 2019
Graduate Development Seminar	Fall 2018
Mathematics of Social Choice	Summer 2018
Mathematics of Social Choice	Fall 2017
Introduction to Calculus	Summer 2017

### The Poincaré Institute

2015-2017

The Poincaré Institute for Mathematics Education was an NSF-funded grant seeking to transform and improve the teaching and learning of mathematics in middle school and the connections between the elementary, middle, and high school mathematics curricula. I worked as an online course instructor for four semesters and a research assistant for one semester and two summers:

Change and Invariance	Fall 2016
Transformations and Equations	Spring 2016
From Numbers to Functions	Fall 2015
Change and Invariance	Spring 2015
Research Assistant	Spring 2017, Summers 2015 and 2016

## Conference, Seminars, and Workshops

### Invited Presentations

- Mathematics of the Common Good Lecture Series, Bowdoin College, Brunswick, ME, October 27, 2020.
- Topology and Group Theory Seminar, Vanderbilt University, Nashville, TN, February 5, 2020.
- EveryTopic Seminar, Brandeis University, Waltham, MA, April 18, 2019.
- Spring Topology and Dynamics, University of Alabama at Birmingham, Birmingham, AL, March 14-16, 2019.

Geometric Group Theory and Topology Seminar, Tufts University, Medford, MA, February 12, 2019.

Math Lunch, Bowdoin College, Brunswick, ME, October 31, 2018.

Faculty Seminar, Bowdoin College, Brunswick, ME, October 30, 2018.

Algebra/Topology Seminar, SUNY Albany, Albany, NY, September 27, 2018.

33rd Summer Conference on Topology and its Applications, Western Kentucky University, Bowling Green, KY, July 17-20, 2018.

Boston Graduate Topology Seminar, Tufts University, Medford, MA, December 9, 2017.

Graduate Student Conference in Algebra, Geometry, and Topology, Temple University, Philadelphia, PA June 3-4, 2017.

Graduate Student Conference in Algebra, Geometry, and Topology, Temple University, Philadelphia, PA, May 14-15, 2016.

## Other Conferences and Workshops Attended

Introduction to geometry, dynamics, and moduli in low dimensions, *University of Warwick, Coventry, UK* September 11-15, 2017.

Groups Acting on  $CAT(0)$  Spaces, *MSRI, Berkeley, CA* September 27-30, 2016.

2016 Fall Eastern Sectional Meeting, *Bowdoin College, Brunswick, ME* September 24-25, 2016.

Summer 2016 Wasatch Topology Conference, *Midway, UT* August 8-10, 2016.

Topology Students Workshop, *Georgia Tech, Atlanta, GA* June 6-10, 2016.

2015 Fall Eastern Sectional Meeting, *Rutgers, New Brunswick, NJ* November 14-15, 2015

## Service

Bowdoin Math Circle <i>Organizer</i>	Fall 2020
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Geometric Group Theory and Topology Seminar (Tufts) <i>Organizer</i>	Fall 2019-Spring 2020
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Graduate Teaching Seminar <i>Founder, Organizer</i>	Fall 2015, Fall 2017, Spring 2018
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Graduate Student Seminar <i>Organizer</i>	Spring 2017-Spring 2019
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Geometric Group Theory Reading Seminar, <i>Founder, Organizer</i>	Spring 2017-Spring 2019
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Tufts Directed Reading Program, <i>Mentor, Organizer</i>	Summers 2015, 2016, 2017
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Tufts Association for Women in Mathematics, <i>Treasurer</i>	2015-2016
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## Honors, Awards, and Grants

Head Teaching Assistant, Tufts University	Fall 2018-Spring 2019
Notation of Development, Tufts University	Fall 2018
Tufts Mathematics Distinguished Teaching Prize	Fall 2018
Graduate Research Excellence at Tufts	Summer 2016