# 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 Chrivasitu), Journal of Algebra **491** (2017) 280-313 (34 pages).

## Teaching Experience

### Bowdoin College

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

The Poincaré Institute for Mathematics Education is 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, Brunsiwck, ME* Septeember 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

Geometric Group Theory and Topology Seminar (Tufts)          Fall 2019-Spring 2020
*Organizer*

Graduate Student Teaching Seminar,          Fall 2015, Fall 2017, Spring 2018
*Founder, Organizer*

Graduate Student Seminar          Spring 2017-Spring 2019
*Organizer*

Geometric Group Theory Reading Seminar,          Spring 2017-Spring 2019
*Founder, Organizer*

Tufts Directed Reading Program,          Summers 2015, 2016, 2017
*Mentor, Organizer*

Tufts Association for Women in Mathematics,          2015-2016
*Treasurer*

# 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