

Michael Ben-Zvi

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Current Position

Norbert Wiener Assitant Professor, Tufts University

2019-2020

Education

Ph.D. Mathematics, Tufts University, 2019.

Advisor: Kim Ruane

M.S. Mathematics, Tufts University, 2015.

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

Cum Laude

Research Interests

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

Preprints and Publications

A combination theorem for path connected boundaries. In preparation.

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

Conference, Seminars, and Workshops

Invited Presentations

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

Teaching Experience

Instructor of Record

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

Teaching Assistant

Mathematics of Social Choice, content creator, grader	Fall 2018
Introductory Statistics (Online), content creator, grader	Summer 2018
Mathematics of Social Choice, content creator, recitation leader, grader	Spring 2018
Introductory Statistics (Online), content creator, grader	Summer 2017
Mathematics of Social Choice, recitation leader, grader	Fall 2014
Real Analysis II, grader	Spring 2014
Real Analysis I, grader	Fall 2013

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

Service

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

A weekly student-led seminar created to give graduate students the tools necessary to evaluate their own teaching, and provide a space for practice lectures with feedback from peers and faculty. As of Fall 2018, this seminar is officially run by the department and titled 'Graduate Development Seminar.'

Graduate Student Seminar Spring 2017-Fall 2018
Organizer

A weekly pure math seminar for Tufts graduate students for topics in geometric group theory, topology, algebra, analysis, geometry, and probability.

Geometric Group Theory Reading Seminar, Spring 2017-Fall 2018
Organizer

A weekly reading course for graduate students of all levels and postdocs.

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

A program that matched undergraduates with graduate students to work on an independent reading project. I was a mentor for one summer (2015) and an organizer for two summers.

Tufts Association for Women in Mathematics,
Treasurer

2015-2016

Our chapter hosted a “Women in Mathematics” panel and collaborated with Girls’ Angle

Tufts Organization of Graduate Students in Mathematics
Upper-year Representative

Fall 2015-Spring 2017

The representative body of Tufts math graduate students that holds biweekly meetings to discuss issues math graduate students are facing and to host faculty speakers.

Membership

American Mathematical Society (AMS)

Society for Industrial and Applied Mathematics (SIAM)