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, Artin and Coxeter groups.

Preprints and Publications

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

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

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).

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, 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

Teaching Experience

Instructor of Record

Introduction to Statistics (expected)	Spring 2020
Calculus II (expected)	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

Teaching Assistant

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

Service

Geometric Group Theory and Topology Seminar at Tufts *Organizer*	Fall 2019-Spring 2020
Graduate Student Teaching Seminar, *Founder, Organizer*	Fall 2015, Fall 2017, Spring 2018
Graduate Student Seminar *Organizer*	Spring 2017-Spring 2019
Geometric Group Theory Reading Seminar, *Founder, Organizer*	Spring 2017-Spring 2019
Tufts Directed Reading Program, *Mentor, Organizer*	Summers 2015, 2016, 2017
Tufts Association for Women in Mathematics, *Treasurer*	2015-2016

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