

ALEXANDER BERTOLONI MELI

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EDUCATION

UC Berkeley

PhD in Mathematics

Berkeley, CA

May 2020

University of Chicago

B.A. in Mathematics, GPA 3.96

Chicago, IL

Graduated: June 2014

EMPLOYMENT

University of Michigan

Research Assistant Professor

Ann Arbor, MI

2020-present

PREPRINTS

- *An Approach to the Characterization of the Local Langlands Correspondence* (with Alex Youcis). (submitted)
<https://arxiv.org/abs/2003.11484>
- *The Scholze-Shin Conjecture for Unramified Unitary Groups I: The Case of No Endoscopy* (with Alex Youcis). (preprint available on website)
- *The Cohomology of Unramified Rapoport-Zink Spaces of EL-Type and Harris's Conjecture*. Alexander Bertoloni Meli. 48 pages (To appear in *The Journal of the Institute of Mathematics of Jussieu*)
<https://arxiv.org/pdf/1802.01629.pdf>

INVITED TALKS GIVEN IN SEMINARS, WORKSHOPS, AND CONFERENCES

- Kyoto University Number Theory Seminar, June, 2020 (Talk given remotely via Zoom)
- UC Berkeley Number Theory Seminar, May 2020 (Talk given remotely via Zoom)
- Purdue University Number Theory Seminar, March 2020 (Talk cancelled due to Covid19)
- Stanford Number Theory Seminar, March 2020 (Talk cancelled due to Covid19)
- Group, Lie, and Number Theory Seminar. University of Michigan, Ann Arbor, January 2020
- Junior Number Theory Days. Johns Hopkins, December 2019
- Arithmetic of Shimura Varieties Workshop. MFO Oberwolfach, January 2019
- Talk in lecture series by Sug Woo Shin on the Langlands Rapoport Conjecture, University of Tokyo, May 2018
- West Coast Algebraic Topology Summer School. "An Introduction to p -divisible groups" (with Tony Feng), August 2016

SEMINARS, WORKSHOPS AND CONFERENCES ORGANIZED

- Co-organized a seminar on Kaletha-Weinstein paper: "On the Kottwitz Conjecture for moduli spaces of local shtukas" (Fall 2019)
- Number Theory and Arithmetic Geometry RTG Workshop, UC Berkeley, May 2019
Co-organized working group on Weinstein lectures
- Number Theory and Arithmetic Geometry RTG Workshop, UC Berkeley, May 2018
Co-organized working group on Guralnick and Tiep lectures
- Co-organized a graduate student seminar on Bruhat-Tits Theory. UC Berkeley, Seminar. (Spring 2018)
- Ran a 4-lecture mini-course at UC Berkeley on p -divisible groups, isocrystals, and Rapoport-Zink spaces. (Spring 2015)
- Co-organized a graduate student seminar on Shimura Varieties. UC Berkeley, Seminar. (Fall 2015)

MENTORING

- Walter Spurlock, UC Berkeley Directed Reading Program, Fall 2018
- James Leng, UC Berkeley DRP Spring 2018,
- Yuxi Han, UC Berkeley DRP, Fall 2016, Spring 2017
- Co-Organized UC Berkeley DRP, Spring 2015-Spring 2017
- Binglin Song, UC Berkeley DRP, Fall 2015
- Victoria Park, UC Berkeley DRP, Spring 2015

TEACHING

University of Michigan

Research Assistant Professor

- Math 115, Calculus I (Fall 2020)

Ann Arbor, MI

Fall 2020- present

University of California, Berkeley

Graduate Student Instructor (GSI)

- GSI for Math 110, Linear Algebra (Spring 2020)
- GSI for Math 110, Linear Algebra (Fall 2018)
- GSI for Math 55, Discrete Mathematics (Fall 2017)
- GSI for Math 54, Linear Algebra and Differential Equations (Fall 2016)
- GSI for Math 104, Real Analysis (Spring 2016)
- GSI for Math 54, Linear Algebra and Differential Equations (Fall 2015)
- GSI for Calculus 1B (Spring 2015)
- GSI for Calculus 1A (Fall 2014)

Berkeley, CA

Fall 2014- Spring 2020