Bar Roytman

Mathematics researcher and educator

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EDUCATION

University of California, Los Angeles   Los Angeles, California
Ph.D Candidate in Mathematics with committee chair: Mike Hill   *Nov 1, 2019*

University of Michigan   Ann Arbor, MI
B.S. Mathematics with Honors   *Sept 2012 - May 2017*

AWARDS

Horn-Moez Prize   University of California, Los Angeles
Excellence in first year graduate studies.   *June 2017*

Outstanding Graduating Senior Award   University of Michigan, Ann Arbor
                                                                                      May 2016

Frank Raymond Award in Geometry and Topology   University of Michigan, Ann Arbor
                                                                                      May 2013

PUBLICATIONS

Paul Reschke. Bar Roytman. "Lower semi-continuity of entropy in a family of K3 surface automorphisms." Rocky Mountain J. Math. 47 (7) 2323 - 2349, 2017. https://doi.org/10.1216/RMJ-2017-47-7-2323

Bar Roytman. "Obstructions for highly structured equivariant multiplicative Thom spectra" (in preparation)

INVITED TALK

Obstructions to maps out of equivariant multiplicative Thom spectra	FRG # 2052042 Dec 5, 2022
The Materials of Mathematics	University of Michigan Math Club Apr 22, 2021

SEMINAR TALKS

Hahn-Shi Theorem I: Theory	Nov 11 2020
Norms in genuine G-spectra	May 13 2020
Comma categories and representable universal properties	Oct 23 2019
In HoTT Pursuit	Oct 24 2019
THH seminar: $TC^-(F_p)$ and $TP(F_p)$	May 08 2019
$\mathbb{A}^1$-homotopy seminar: Basic properties of $\mathbb{A}^1$-algebraic topology II	May 03 2019
$\mathbb{A}^1$-homotopy seminar: Basic properties of $\mathbb{A}^1$-algebraic topology I	May 01 2019
Quick Witt	Apr 18 2019
The partition complex model for the Goodwillie derivatives of Id, part 1	Feb 6, 2019
Juvitop: EKMM 2: UCT, Kunneth, and THH	Feb 01 2019
Juvitop: Intro to Chromatic Homotopy Theory	Nov 19 2018
Derived schemes	Nov 09, 2018
Rationalization and Localization	Oct 17 2018
Weakly étale morphisms	Apr 11 2018
Losing your Marbles in Topological Spaces	Mar 01 2018
Symonds's theorem, part 1	Feb 07 2018
Tour of Symmetric Functions	Jun 01 2017

TEACHING ASSISTANTSHIP EXPERIENCE

Math 225B: Differential Geometry
Math 61: Discrete Structures
Math 115AH: Linear Algebra (Honors)
Math 225C: Algebraic Topology
Math 121: Introduction to Topology
Math 115A: Linear Algebra
Math 111: Theory of Numbers
Math 123: Foundations of Geometry
Math 174E: Mathematics of Finance for Mathematics/Economics Students
Math 110A: Algebra

Math 31B: Integration and Infinite Series
Math 32B: Calculus of Several Variables
Math 31A: Differential and Integral Calculus
Math 170A: Probability Theory

OUTREACH

Directed Reading Program   UCLA Mathematics

Jan 2019 - March 2021, (resuming March 2022)

Volunteer individualized reading course mentorship program. My reading courses on number theory, manifold theory, algebraic topology, and homological algebra.

Instructor at U(M) Math Corps   Washtenaw County, Michigan

June 2021 - August 2021

Ran a course on mathematical proof for the high school volunteers of the U(M) Math Corps program. The course emphasizes high standards, was well-staffed to provide real-time and remote feedback, and is designed to be taken multiple times, enjoyably.