

Eduard Einstein

Department of Mathematics
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Education:

Ph.D. Candidate, Mathematics, expected May 2018,
Cornell University, Ithaca, NY
Advisor: Jason Manning

M.S. in Mathematics, received May 2015
Cornell University, Ithaca, NY

M.A. in Mathematics, received June 2012
University of California, Santa Barbara, Santa Barbara, CA

B.A. in Mathematics, received May 2010
Pomona College, Claremont, CA

Articles:

Eduard Einstein. **Hierarchies of virtually special toral relatively hyperbolic groups**, in preparation.

Will Dison, Eduard Einstein, and Timothy R. Riley. **Ackermannian integer compression and the word problem for hydra groups**. 41st International Symposium on Mathematical Foundations of Computer Science (MFCS 2016), volume 58 of Leibniz International Proceedings in Informatics (LIPIcs), pages 30:130:14, Dagstuhl, Germany, 2016. Schloss Dagstuhl Leibniz Zentrum fuer Informatik (Extended abstract of next entry accepted to computer science conference proceedings)

Will Dison, Eduard Einstein and Timothy R. Riley, **Taming the hydra: the word problem and extreme integer compression**, arXiv:1509.02557 [math.GR], Sept. 2015, submitted for publication.

Eduard Einstein, Charles Johnson, Brian Lins and Ilya Spitkovsky, **The ratio field of values**, *Linear Algebra and its Applications*, 434 (2011), 1119-1136.

Talks

Topology Seminar, University of Wisconsin, Milwaukee, (**Invited**), October 2017, Milwaukee, WI.

McGill Geometric Group Theory Seminar (**Invited**), October 2017, Montreal, QC.

Graduate Student Conference in Algebra, Geometry and Topology, June 2017, Temple University, Philadelphia, PA.

Binghamton University Topology Seminar (**Invited**), April 2017, Binghamton, NY.

Graduate Student Topology and Geometry Conference, April 2017, Michigan State University, Lansing MI.

Binghamton University Graduate Student Algebra and Geometry Conference, October 2016, Binghamton, NY.

Cornell Topology Seminar, October 2016, Ithaca, NY.

Temple University Graduate Seminar (**Invited**), April 2015, Philadelphia, PA.

Cornell Topology Seminar, October 2014, Ithaca, NY.

Binghamton University Graduate Conference in Algebra and Topology, November 2013, Binghamton, NY.

Awards and Honors:

Raymond L. Wilder Prize for Outstanding Academic Achievement, awarded June 2011
Department of Mathematics, University of California, Santa Barbara

Bruce Jay Levy Memorial Prize in Mathematics, awarded September 2009
Department of Mathematics, Pomona College

Summer Matrix Analysis REU: Invited Participant, June-August, 2009
College of William and Mary, Williamsburg, VA

Teaching Experience:

Teaching Assistant, Department of Mathematics, Cornell University, *Fall 2012 - Present*

Courses:

- Math 1110 (Calculus I), **instructor of record**
- Math 1120 (Calculus II), **instructor of record** (2 semesters)
- Math 2210 (Linear Algebra), recitation sections
- Math 4320 (Introduction to Algebra), grader
- Math 4330 (Honors Linear Algebra), grader

Teaching Assistant, Department of Mathematics, University of California, Santa Barbara, *Fall 2010 - Spring 2012*

Courses:

- Math 3A (Differential Calculus), recitation sections
- Math 3B (Integral Calculus), recitation sections
- Math 8 (Transition to Higher Mathematics), recitation sections
- Math 34A (Calculus I for Life and Social Sciences), recitation sections
- Math 34B (Calculus II for Life and Social Sciences), recitation sections
- Math 8 (Transition to Higher Mathematics), grader
- Math 111B (Abstract Algebra), grader
- Math 117 (Introduction to Analysis), grader