

Samuel Kolins

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- CURRENT STATUS** Assistant Professor of Mathematical Sciences,
Lebanon Valley College.
- RESEARCH INTERESTS** Combinatorics,
Particularly problems involving f -vectors of simplicial complexes and posets.
- EDUCATION** **Ph.D.** (Mathematics) Cornell University, 2011.
M.S. (Mathematics) Cornell University, 2009.
B.A. (Mathematics and Physics) Bowdoin College, 2006.
- PUBLICATIONS** *f-vectors of Triangulated Balls*
Discrete Comput. Geom. To appear.
<http://www.springerlink.com/content/au88345p5j2k3284/>
f-vectors of Simplicial Posets that are Balls
Journal of Algebraic Combinatorics. To appear.
<http://www.springerlink.com/content/p5318n7h04w27303/>
Polynomial Root Squeezing
with M. Boelkins and J. From,
Math. Mag. 81 (2008), no. 1, 39-44.
- AWARDS AND FELLOWSHIPS** **Graduate Student Teaching Award, 2010**
Awarded by the Cornell Math department.
Hutchinson Fellowship, 2009
Awarded by the Cornell Math department for outstanding work as a teaching assistant or as a student in the graduate program.
Hammond Prize, 2006
Awarded by the Bowdoin College Math department to a graduating senior completing a mathematics major with distinction.
Almon Goodwin Prize, 2005
Awarded by the Bowdoin College Board of Trustees for scholarly achievement among students completing their junior year.
- TALKS** **1059th AMS Meeting -
Special Session on Geometric Combinatorics**
f-Vectors of Triangulated Balls
University of New Mexico, Albuquerque, NM, April 2010
Binghamton Combinatorics Seminar
Simplicial Cell Decompositions of Balls, March 2011
Ohio State Geometric Group Theory Seminar
f-vectors of Homology Balls, May 2010

University of Kentucky Discrete CATS Seminar*Characterizing the f -vectors of Simplicial Poset Balls*, November 2010**Cornell Combinatorics and Discrete Geometry Seminar***Simplicial Cell Decompositions of Balls*, February 2011 *f -vectors of Triangulated Balls*, April 2009**Cornell Computational and Commutative Algebra Seminar***An Application of Cancellation to f -vectors*, October 2010**Teaching Seminar, Cornell University***Grading and Rubrics*, September 2010*Transference of Knowledge in Educational Settings*, March 2010*Reading in Introductory Undergraduate Math Courses*, October 2009**MathFest 2005, Albuquerque, New Mexico***Spans of the Derivatives of Polynomials*, Student Paper Award Winner**TEACHING
EXPERIENCE****Graduate Teaching Assistant, Cornell University**

Courses taught as an instructor:

Math 1110 (Calculus I), Spring 2008

Math 1120 (Calculus II), Fall 2008

Math 1910 (Calculus for Engineers), Fall 2009

Courses taught as a recitation leader:

Math 1106 (Calculus for the Life and Social Sciences), Spring 2007

Math 1910 (Calculus for Engineers), Fall 2006

Math 1920 (Multivariable Calculus for Engineers), Spring 2009

Math 2210 (Linear Algebra), Spring 2010

Analysis TA for the summer math institute at Cornell, 2007 and 2008

The summer math institute is a 6-8 week program for undergrads considering grad school in mathematics

Grader for Math 4550 (Applicable Geometry), Spring 2011.

OUTREACH**Math Explorers Club, Ithaca High School**

Co-organizer of the club, Fall 2007

Wrote materials for Cornell's archive of high school math activities

Center for Talented Youth, Odyssey Series

Ran sessions on tilings (Spring 2009) and polytopes (Fall 2010)

4-H Career Explorations Conference

Ran a session on mathematical games, July 2008

SERVICE**Organizer for the Olivetti Seminar, Cornell University**

Spring 2008, Spring 2010

The Olivetti Seminar is Cornell's graduate student colloquium

Organizer for Teaching Seminar, Cornell Math Department

Spring 2010 - Present

Judge for the Cornell Mathematical Contest in Modeling

November 2010