

Thomas Enkosky

Curriculum Vitae

Education

- 2011 **Ph.D. Mathematics**, *The University of Kansas*, Lawrence.
- 2004 **M.A. Mathematics**, *The University of Maine*, Orono.
- 2003 **B.A. Mathematics**, *The University of Maine*, Orono.

Research Interests

Graph theory, algebraic geometry, algebraic combinatorics, enumerative combinatorics

Teaching Experience

2015-present **Lecturer**, *Boston University*, Boston, MA.

Classes taught:

- MA 113 Elementary Statistics
- MA 193 Discrete Mathematics
- MA 213 Basic Statistics and Probability lecture and lab
- MA 214 Applied Statistics Lab
- MA 242 Linear Algebra
- MA 581 Probability Theory

2012-2015 **Lecturer**, *U.S. Coast Guard Academy*, New London, CT.

Classes taught:

- Differential Equations
- Probability and Statistics
- Calculus I
- Calculus II Coordinator
- Foundation for Calculus (Precalculus class with emphasis on improving study habits)
- Introduction to Calculus (slow paced Calculus I spread over two semesters)

2004-2012 **Lecturer/Graduate Teaching Assistant**, *University of Kansas*, Lawrence.

Classes taught:

- Assistant Coordinator for Math 115 Fall 2006
- Math 122 Calculus II (five hour course for technical majors)
- Math 121 Calculus I (five hour course for technical majors)
- Math 116 Calculus II (three hour course for nontechnical majors)
- Math 115 Calculus I (three hour course for nontechnical majors)
- Math 104 Precalculus

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2003-2004 **Graduate Teaching Assistant**, *University of Maine*, Orono.

Classes taught:

- o Math 111 College Algebra

Student led research

- 2015 **International Ice Patrol: A Probability Assessment to Minimize Risk for Mariners**, *Senior Capstone Project*, Cadets: Christina Bilodeau, Luke Carani, Advisors: Dr. Katherine Krystinik, CAPT Melinda McGurer, Dr. Thomas Enkosky, LT Brian Crimmel.
- 2014 **Female Afloat Assignment Optimization**, *Senior Capstone Project*, Cadets: Samantha Marmolejo, Rachel Smith, Kevin Sowers, Advisors: CAPT Kurt Sebastian, CAPT Melinda McGurer, LT Brian Crimmel, Dr. Thomas Enkosky.
- 2013 **USCG Aids to Navigation Teams Staffing Model**, *Senior Capstone Project*, Cadets: Kelsey Freeman, Adam Horstick, Steele Johnson, Justin Maio, Advisors: CAPT Melinda McGurer, Dr. Russell Rushmeier, Dr. Thomas Enkosky.

Papers

A smaller generating set for the defining ideal of the slope variety, *in preparation*.

- 2014 **A sequences defined by M -sequences**, *joint with Branden Stone*, *Discrete Mathematics*, Volume 333 (2014), pages 35-38.
arxiv: 1308.4945
- 2013 **Graph Varieties in High Dimension**, *joint with Jeremy Martin*, *Beiträge zur Algebra und Geometrie*, 54, no. 1 (2013), 1-12.
arxiv:1006.5864
- 2011 **Counting points of slope varieties over finite fields**, *Electronic Journal of Combinatorics*, 18, no. 1 (2011), Research Article 3.
arxiv:1010.1930

Talks and Presentations

- 2016 **The Algebra of Rigid Structures**, *Colloquium*, University of Maine, Orono, ME.
- 2016 **Flows on Graphs**, *Colloquium*, Adelphi University, Garden City, NY.
- 2015 **Graph rigidity and slope varieties**, *Colloquium*, Fairfield University, Fairfield, CT.
- 2015 **M -sequences, the Fibonacci sequence, and integer partitions**, *Spring Eastern Sectional Meeting*, Georgetown University, Washington, DC.
- 2015 **Connecting M -sequences with the Fibonacci sequence and integer partitions**, *AMS-MAA Joint Mathematics Meetings*, San Antonio, TX.
- 2014 **Graph rigidity and slope varieties**, *Colloquium*, Adelphi University, Garden City, NY.
- 2014 **A sequence defined by M -sequences**, *MAA Joint Meeting of the New Jersey and Metro New York Sections*, Saint Peter's University, Jersey City, NJ.

- 2014 **Bounds on the number of h -vectors of fixed length**, *Combinatorics Seminar*, University of Kansas, Lawrence.
- 2014 **Introduction to Ring theory and Edge Ideals**, *Mini Conference on Graph Theory and its Relation to Ring Theory*, Bard Prison Initiative, Napanoch, NY.
- 2010 **Slope Varieties and Series-Parallel Networks**, *AMS Southeastern Sectional Meeting Special Section on Combinatorial Algebra*, University of Kentucky, Lexington.
- 2009 **Graph Varieties in High Dimension**, *poster presentation, Institute for Pure and Applied Mathematics, Combinatorial Geometry Workshop*, University of California, Los Angeles.
- 2009 **Weather and the Hairy Ball Theorem**, *Math Awareness Month presentation for 6th graders*, University of Kansas, Lawrence.
- 2008 **Voting Theory**, *Math Awareness Month presentation for 6th graders*, University of Kansas, Lawrence.
- 2007 **The Monty Hall Problem**, *Math Awareness Month presentation for 6th graders*, University of Kansas, Lawrence.

Conferences and Workshops Attended

- 2016 **Macaulay2 Workshop**, University of Utah, Salt Lake City.
- 2012 **AMS Spring Sectional Meeting**, University Kansas, Lawrence.
- 2009 **KUMUNU**, University of Nebraska, Lincoln.
- 2009 **Graduate Student Combinatorics Conference**, University of Kentucky, Lexington.
- 2008 **AMS Western Sectional Meeting**, University British Columbia, Vancouver.
- 2008 **CombinaTexas**, University of Texas, El Paso.
- 2008 **Graduate Student Combinatorics Conference**, University of California, Davis.
- 2007 **Graduate Student Combinatorics Conference**, University of Washington, Seattle.
- 2006 **Summer school on Valuation Theory and Integral Closures in Commutative Algebra**, University of Ottawa, Ottawa.
- 2005 **Midwest Algebra, Geometry and Their Interactions Conference**, Notre Dame, South Bend, ID.
- 2005 **AMS Central Sectional Meeting**, University of Nebraska, Lincoln.

Professional development

Referee for journals
 Reviewer for Mathematical Reviews/MathSciNet
 Member of the American Mathematical Society

Volunteer

- 2014 **MATHCOUNTS**, *Bennie Dover Jackson Middle School*, New London, CT.