

# Elizabeth R. Moseman

## Curriculum Vitae

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### EDUCATION

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#### Dartmouth College

Ph.D., Mathematics June 2007  
Master of Arts, Mathematics June 2004

#### Harvey Mudd College

Bachelor of Science, Mathematics. Spring 2002

### PUBLICATIONS

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#### *On the Oriented Line Graph*

Authors: E. Moseman and C. Storm  
*to appear, Ars Combinatorica*

#### *On a form of coordinate percolation*

Authors: E. Moseman and P. Winkler  
*Combinatorics, Probability, and Computing*, volume 17 (2008), issue 06, pp. 837-845

#### *The Combinatorics of Coordinate Percolation*

Ph.D. Thesis (2007), Department of Mathematics, Dartmouth College.  
Advisor: Dr. Peter Winkler

#### *Data Compression on the Symmetric Group*

Senior Thesis (2002), Department of Mathematics, Harvey Mudd College.  
Advisor: Dr. Michael Orrison

### TEACHING EXPERIENCE

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**Assistant Professor**, United States Military Academy July 2007 — present

*MA461: Graph Theory and Networks* Fall 2008  
*MA205: Integral Calculus*, three sections Fall 2008  
*MA206: Probability and Statistics*, four sections Spring 2008  
*MA103: Math Modelling and Introduction to Calculus*, three sections Fall 2007

**Instructor**, Dartmouth College

*Math 1: Calculus with Algebra and Trigonometry* Fall 2005, Fall 2006  
*Math 8: Calculus of Functions of One and Several Variables*, co-taught with Scott Pauls Spring 2006  
*Math 6: Finite Mathematics* Spring 2005

**Teaching Assistant**, Dartmouth College

*Math 13: Calculus of Vector-Valued Functions* Winter 2004  
*Math 15a: Integrated Mathematics and Physical Science* Fall 2003  
*Math 13: Calculus of Vector-Valued Functions* Winter 2003  
*Math 3: Introduction to Calculus* Fall 2002

**SELECTED PRESENTATIONS**

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<i>Other Critical Exponents in Coordinate Percolation</i>	January 2009
Joint Mathematics Meetings, Washington, DC	
<i>On a Form of Coordinate Percolation</i>	January 2008
Joint Mathematics Meetings, San Diego, CA	
<i>The Combinatorics of Coordinate Percolation</i>	May 2007
Thesis Defense, Dartmouth College	
<i>Introduction to Coordinate Percolation</i>	June 2006
Graduate Student Seminar, Dartmouth College	
<i>Combinatorial Worms</i>	March 2006
Southeastern International Conference on Combinatorics, Graph Theory & Computing, Florida Atlantic University	
<i>On the Origin of Worms</i>	August 2005
Graduate Student Seminar, Dartmouth College	
<i>Colouring and Choosability in Planar Graphs</i>	February 2005
Graduate Student Seminar, Dartmouth College	
<i>Data Compression on the Symmetric Group</i>	February 2002
Nebraska Conference for Undergraduate Women in Mathematics, University of Nebraska, Lincoln	

**HONORS AND AWARDS**

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<b>Budapest Semesters in Mathematics</b>	Fall 2000
<b>Dartmouth College</b>	
GAANN Fellowship	Sept. 2005 – Sept. 2006
Dartmouth College Graduate Fellowship	2002 – 2005, 2006 – 2007
<b>Pi Mu Epsilon</b>	inducted — 2008

**ADDITIONAL SKILLS**

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Mathematical Software:  $\text{\LaTeX}$ , Mathematica, Matlab, Maple  
 Computer Skills: Perl, C++, Java, HTML

**ADDITIONAL ACTIVITIES**

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<b>Member</b> , <i>American Mathematical Society</i>	
<b>Problem of the Week</b> , <i>Coordinator</i> , USMA	Fall 2008 - Spring 2009
<b>Master Teacher Program</b> , USMA	Fall 2007 - Spring 2008
<b>Triage Judge</b> , <i>Interdisciplinary Contest in Modeling</i>	Spring 2008
<b>Faculty Voice Group</b> , <i>Dartmouth College</i>	Fall 2006
<b>Teaching Seminar</b> , <i>Dartmouth College</i>	Summer 2004
<b>Girl Scout Troop Leader</b>	Fall 2003 - Spring 2006

**REFERENCES**

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**Peter Winkler**, Dartmouth College, Hanover, NH  
**Steve Horton**, US Military Academy, West Point, NY  
**Frank Wattenberg**, US Military Academy, West Point, NY  
**Frederick Rickey**, US Military Academy, West Point, NY