

Lane E. Bloome  
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### Education

- Purdue University, College of Science, graduate student in mathematics, August 2013-present
- May 2013, Bachelor of Arts in mathematics, Millikin University, summa cum laude, cumulative GPA of 4.0.
- Participant, Cornell University Summer Mathematics Institute, summer 2012.
- Participant, Auburn University Research Experience for Undergraduates, summer 2011.

### Research

- Co-author, *On the Center of Zero-Divisor Graphs and Ideal-Divisor Graphs of Finite Commutative Rings With Identity* (with H. Peck), to appear. *Journal of Algebra and its Applications*.
- Co-author, *An Exploration of Ideal-Divisor Graphs* (with M. Axtell, J. Stickles, R. Donovan, P. Milner, H. Peck, A. Richard, and T. Williams), to appear. *Involve*.
- Presentation, *Sequences Generated by Appending Digits to Sierpinski Numbers*, Simpson College Midwest Undergraduate Mathematics Symposium, April 2013.
- Presentation, *Appending Digits to Riesel and Sierpinski Numbers*, Joint Mathematics Meetings, January 2013.
- Poster, *Using Ideal-Divisor Graphs to Classify Ideals of Finite Commutative Rings with Identity*, Joint Mathematics Meetings, Undergraduate Poster Session, January 2013.
- Presentation, *Exploring Central Sets of Compressed Zero-Divisor Graphs of Finite Commutative Rings with Identity*, University of Dayton Undergraduate Mathematics Day, November 2012.
- Presentation, *Central Sets of Compressed Zero-Divisor Graphs of Finite Commutative Rings with Identity*, Rose-Hulman Institute of Technology Undergraduate Mathematics Conference, April 2012.
- Co-author, problem No. 11625 in the February 2012 issue of the *American Mathematical Monthly*, Vol. 119, No. 2 (With P.D. Johnson and N. Saritzky).
- Presentation, *Compressed Zero-Divisor Graphs of Finite Commutative Rings with Identity*, Rose-Hulman Institute of Technology Undergraduate Mathematics Conference, April 2011.
- Poster, *Compressed Zero-Divisor Graphs and Lattices on Finite Commutative Rings*, Joint Mathematics Meetings, Undergraduate Poster Session, January 2011.
- Presentation, *Zero-Divisor Graphs of Finite Commutative Rings with Identity*, Millikin University Undergraduate Mathematics Research Conference, September 2010.

## Teaching

- Teaching Assistant, Purdue University, MA 161 (Calculus I), Fall 2013
- EDGE Mentor, Millikin University Office of Student Success, August 2012-May 2013.
- Teaching Assistant, Millikin University, abstract algebra, Fall 2012.
- Teaching Assistant, Millikin University, discrete mathematics, Spring 2012.
- Tutor, Millikin University Mathematics Center, August 2009-May 2013.

## Honors and Awards

- Award, Mathematics and Computer Science Award, presented to an outstanding senior majoring in mathematics or computer science, April 2013.
- First Place Prize, for poster *Using Ideal-Divisor Graphs to Classify Ideals of Finite Commutative Rings with Identity*, Joint Mathematics Meetings, Undergraduate Poster Session, January 2013.
- Award, Scovill Prize, Millikin University's highest academic honor, May 2012.
- Award, Linda Weatherbee Award for an outstanding junior mathematics major, May 2012.
- First Place Prize, for presentation *Central Sets of Compressed Zero-Divisor Graphs of Finite Commutative Rings with Identity*, Rose-Hulman Institute of Technology Undergraduate Mathematics Conference, April 2012.
- Member, Pi Mu Epsilon Honorary Mathematics Fraternity, May 2011-present
- First Place Prize, for poster *Compressed Zero-Divisor Graphs and Lattices on Finite Commutative Rings*, Joint Mathematics Meetings, Undergraduate Poster Session, January 2011.
- Award, Margaret Burkhardt Johnson Modern Language Excellence Award for an outstanding senior in Modern Languages, May 2010
- Illinois State Scholar, 2009
- Rank of Eagle Scout, Boy Scouts of America, April 2007

## Activities

- Millikin University Math Club, August 2011-May 2013  
Co-founder, President August 2011-May 2012, Treasurer, August 2012-May 2013
- Pi Mu Epsilon Honorary Mathematics Fraternity, May 2011-May 2013  
Vice-President, August 2011-May 2012, President August 2012-May 2013
- MathCounts, judge, 2011, 2012, 2013