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EDUCATION **University of Louisville**, Louisville, Kentucky
 Ph.D., Applied and Industrial Mathematics, May 2008

- Dissertation: *A study on unit bar-visibility graphs*, advised by André E. Kézdy
- Recipient of Graduate Dean's Citation

 M.S., Mathematics, May 2007
Transylvania University, Lexington, Kentucky
 B.A., Mathematics, May 2004

- *Magna Cum Laude*, with honors in Mathematics
- Minors in computer science and educational studies

EXPERIENCE **Centre College**, Danville, Kentucky **August 2008 to present**
Visiting Assistant of Professor of Mathematics
 Course load of three courses per semester.

- MAT 401: Independent Study, *Applications of Graph Theory*, Spring 2009
- MAT 141: *Integral Calculus with Review*, 2 sections Spring 2009
- MAT 190: *Discrete Mathematics* Spring 2009
- MAT 140: *Differential Calculus with Review*, 2 sections Fall 2008
- MAT 240: *Linear Algebra* Fall 2008

University of Louisville, Louisville, Kentucky **Fall 2004 to Spring 2008**
Graduate Teaching Assistant

- Primary Instructor
 - Math 151: *Math for Elementary Majors* Summer 2007, Fall 2007
- Recitation Instructor
 - Math 109: *Elementary Statistics* Spring 2008
 - Math 111: *College Algebra* Fall 2004, Spring 2005

Research Experience for Graduate Students **Summer 2007**
 Participated in a summer research program organized by Professor Douglas West from the University of Illinois Urbana-Champaign. Topics focused on applications of and problems in graph theory and combinatorics. Collaborative research was emphasized.

National Science Foundation GK-12 Fellowship **July 2005 - May 2007**
 Co-taught in Jefferson County Kentucky Elementary schools. Developed, planned, and implemented inquiry-based lessons using the content standards for the fourth and fifth grade. Awarded to help increase the mathematics content knowledge and best-teaching practices of Jefferson County Public School teachers.

Orientation Leader, Transylvania University **August 2001 - December 2003**
 Co-taught, with a faculty member, University 1111 (Academic Career Skills), a $\frac{1}{4}$ -unit credit (1-hour equivalent) course required by all first-year students.

Private Tutoring**Fall 2001-May 2008**

Advanced Placement Calculus, College Algebra, Algebra I, Algebra II, Pre-Calculus, and standardized test preparation.

PUBLICATIONS

The hub number of a graph (with T. Grauman, S.G. Hartke, A. Jobson, B. Kinnersley, D. West, P. Worah, and H. Wu) *Info. Proc. Letters* 108 (2008) 226-228.

A study on unit bar-visibility graphs. Doctoral Dissertation (2008).

Unit bar-visibility graphs with transversal number 1. In preparation.

Game acquisition number for complete bipartite graphs and trees (with K. Milans, C. Stocker, and D. West). In preparation.

AWARDS AND RECOGNITIONS

Project NExT (New Experiences in Teaching) Fellow, 2008-2009

University of Louisville

- Most Outstanding Graduate Student in Mathematics, 2008
- Ken F. and Sandra S. Hohman Fellowship, August 2007-May 2008

Transylvania University

- The Holleian Society, awarded for superior achievement in liberal arts studies, inducted May 2004
- Ruchmann Award in Mathematics, May 2004
- Omicron Delta Kappa National Leadership Honorary, Inducted November 2003

TALKS AND PRESENTATIONS

Unit bar-visibility graphs with transversal number one.

- 21st Cumberland Conference on Graph Theory, Combinatorics, and Computing. Vanderbilt University, Nashville, Tennessee. May 2008.
- Mathematics, Combinatorics, and Algebra Seminar. University of Louisville, Louisville, Kentucky. February 2008.

A characterization on a class of unit bar-visibility graphs.

- 27th Annual Mathematics Symposium. Western Kentucky University, Bowling Green, Kentucky. October 2007.

An introduction to unit bar-visibility graphs.

- Mathematics, Combinatorics, and Algebra Seminar. University of Louisville, Louisville, Kentucky. April 2006.

Converting bar graphs to circle graphs.

- National Science Foundations GK-12 Annual Meeting. Washington D.C. With Jane Hart. March 2006.

SERVICE

To Centre College

- Student Academic Advisor April 2009 - present
- Calculus Textbook Review Committee January 2009 - present
- Volunteer Assitant Swim Coach September 2008 - present
- Discrete Mathematics Syllabus Review Committee September 2008 - present

To the University of Louisville

- General Education Courses Review Committee December 2006 - May 2007
- GK-12 Training Session Leader August 2006
- Graduate Teaching Assistant Panel for new graduate students August 2006

To the Academic Community

- MathFest Student Presentation judge August, 2009
- MAA Undergraduate Poster Session judge January 2009
- Project NExT Panel Session Organizer for the 2009 JMM October 2008 - present
- Laukhuf Elementary School Math Fair organizer May 2007
- Laukhuf Elementary School Pi Day organizer March 2007

PROFESSIONAL
AFFILIATIONS

Mathematical Association of America
American Mathematical Society
Association for Women in Mathematics
Young Mathematicians Network