

Dr. Neal Smith

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Education

Ph.D. Mathematics
The University of Tennessee (May 2004)
Knoxville, Tennessee
Primary Interests: Commutative Rings, Enumerative Combinatorics
Dissertation Title: *Graph-Theoretic Properties of the Zero-Divisor Graph of a Ring*
Major Professor: Dr. David F. Anderson

M.S. Mathematics
Miami University (August 1998)
Oxford, Ohio

B.S. Mathematics
Bradley University (May 1996)
Peoria, Illinois

Teaching Experience

Associate (2009-)/Assistant (2004-2009) Professor of Mathematics

Department of Mathematics and Computer Science
Augusta State University
Augusta, Georgia

I was responsible for teaching and evaluation of courses including *College Algebra*, *Precalculus*, *Basic Statistics*, *Honors Basic Statistics*, *Calculus I*, *Calculus II*, *Logic and Set Theory*, *Linear Algebra*, *Number Theory*, *Abstract Algebra I*, *Abstract Algebra II*, *Graph Theory* and *Combinatorics*.

Graduate Teaching Associate (1998-2004)

Department of Mathematics
University of Tennessee
Knoxville, Tennessee

I was responsible for teaching and evaluation of courses including *Intermediate Algebra*, *Finite Mathematics*, *College Algebra*, *Precalculus*, *Basic Statistics*, *Basic Calculus*, *Calculus I*, *Calculus II*, *Calculus III*, *Mathematics for the Life Sciences I* and *Mathematics for the Life Sciences II*.

Teaching Assistant (1996-1998)

Department of Mathematics
Miami University
Oxford, Ohio

I was responsible for teaching and evaluation of *Precalculus* and *Calculus I* courses.

Publications

1. N. Smith, *Graph-Theoretic Properties of the Zero-Divisor Graph of a Ring*, Ph.D. dissertation.
2. N. Smith, *Planar Zero-Divisor Graphs*, International Journal of Commutative Rings, **2(4)**, 2003 (Later reprinted in *Focus on Commutative Rings Research*, Nova Sci. Publ., New York, 2006).
3. N. Smith, *Infinite Planar Zero-Divisor Graphs*, Communications in Algebra, **35(1)**, January 2007, 171-180.
4. N. Smith, *On an 'Uncounted' Fibonacci Identity and its q -Analogue*, Fibonacci Quarterly, **46/47(1)**, February 2009, 73-79.
5. H. Chiang-Hseih, N. Smith, H. Wang, *Commutative Rings with Toroidal Zero-Divisor Graphs*, Houston J. of Mathematics, **36(1)**, January 2010, 1-32.

Presentations

1. "*Finite and Infinite Zero-Divisor Graphs*", AMS Sectional Meeting #991, Chapel Hill NC, October 2003.
2. "*The Zero-Divisor Graph of a (Not Necessarily Commutative) Semigroup*", Contributed Papers Session, AMS National Meeting #993, Phoenix AZ, January 2004.
3. "*Zero-Divisor Graphs*", Mathematics department seminar, Augusta State University, September 2004.
4. "*A Short Course in q -Counting Sequences*", Mathematics department seminar, Augusta State University, March 2005.
5. "*A New Proof of an Old Fibonacci Identity and its q -Analogue*", Mathematics department seminar, Augusta State University, Spring 2006.
6. "*A Class of Generalized Inversion Problems*", Mathematics department seminar, Augusta State University, October 2006.
7. "*Partition Statistics and the q -Fibonacci Sequence*", Wofford College Mathematics seminar, March 2007.
8. "*On Fibonacci Inversion*" Mathematics department seminar, Augusta State University, February 2008.
9. "*A Baseball-Themed Statistics Course*", MAA-SE section meeting, Charleston SC, March 2008.

Service

2009-2010: Academic policies committee, Mathematics program committee, Mathematics contest test committee, Math Jeopardy host/coordinator, Mathematics department promotion and tenure committee, Honors program committee, member of two Honors thesis panels, Anime Club faculty advisor.

2008-2009: Academic policies committee, Mathematics department scholarships and awards committee (Chair), Mathematics program committee, retention and advising committee, Mathematics department standards committee, Anime Club faculty advisor.

2007-2008: Faculty research and faculty development committee (Chair), Mathematics curriculum committee, Math contest committee, College Algebra final exam committee, Mathematics department standards committee, Anime Club faculty advisor.

2006-2007: Mathematics curriculum committee (Chair), faculty research and faculty development committee, Math contest committee, College Algebra final exam committee, retention committee, Mathematics program review committee, summer rotation policy committee.

2005-2006: Mathematics curriculum committee, Math contest committee, College Algebra final exam committee, Mathematics scholarship committee, summer rotation policy committee.

2004-2005: Mathematics curriculum committee, Math contest committee, Mathematics web site committee.

Ongoing: Reviewer for *Missouri Journal of Mathematical Sciences*, *Networks*, and *Journal of Commutative Algebra*.

Professional Development

Spring 2006: At the MAA Southeastern Section meeting, my Ph.D. advisor, Dr. David Anderson, was one of the invited speakers. During his talk, he spoke extensively about some of my work.

January 2005: I attended a workshop at the National AMS/MAA meetings, the focus of which was how to develop and sustain undergraduate-level research programs.

