

Curriculum Vitæ

Sandra Spiroff

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Education

1996-2003 Ph.D. in Mathematics, University of Illinois at Urbana-Champaign
Dissertation: "The Behavior on the Restriction of Divisor Classes
to Sequences of Hypersurfaces"; Phillip Griffith, advisor
1994-1996 MA in Mathematics, Saint Louis University, St. Louis
1987-1991 BS in Mathematics, Indiana University, Bloomington

Positions

2008-present Assistant Professor, University of Mississippi, Oxford
2007 Summer Visiting Assistant Professor, University of Nebraska-Lincoln
2006-2008 Assistant Professor, Seattle University
2003-2006 VIGRE and Scott Postdoctoral Assistant Professor, University of Utah
2001-2003 GAANN and VIGRE Fellow, University of Illinois at Urbana-Champaign
2000-2001 METER/IPLP Research Assistant, University of Illinois at Urbana-Champaign
1996-2000 Teaching Assistant, University of Illinois at Urbana-Champaign
1994-1996 Instructor and Teaching Assistant, Saint Louis University, St. Louis
1992-1994 High School Instructor, Normandy School District, St. Louis

Publications

- Local hypersurfaces with isolated singularities*, with F. Moore, G. Piepmeyer, and M. Walker, in preparation.
- Maps on divisor class groups induced by ring homomorphisms of finite flat dimension*, with S. Sather-Wagstaff, J. Comm. Alg., to appear.
- Identifying properties of a ring from a zero divisor graph*, with C. Wickham, submitted.
- An algebraic proof of the commutativity of intersection with divisors*, with P. Roberts, J. Algebra, **320** (2008) 2165-2180.
- Divisor class groups of graded hypersurfaces*, with A. Singh, Contemp. Math, **448** (2007), 237-243.
- Asymptotic growth of powers of ideals*, with C. Ciupercă and F. Enescu, Illinois J. Math, **51** no. 1 (2007) 29-39.
- Restriction of divisor classes to hypersurfaces in characteristic p* , with P. Griffith, J. Algebra, **275** (2004) 801-814.
- The limiting behavior on the restriction of divisor classes to hypersurfaces*, J. Pure Appl. Alg., **186** (2004) 77-89.

Selected Talks

- November 2007 Departmental Colloquium, Cal Poly, San Luis Obispo
A New Zero Divisor Graph
- August 2007 Algebra Seminar, University of Nebraska-Lincoln
An Algebraic Proof of the Commutativity of Intersection with Divisors
- April 2007 Departmental Colloquium, Missouri State University
Zero Divisor Graphs
- April 2007 Algebra Seminar, University of Washington
An Algebraic Proof of the Commutativity of Intersection with Divisors
- October 2006 Mathematics Colloquium, Reed College
The Implications of Unique Factorization to Gambling
- October 2006 AMS Fall Western Section Meeting, University of Utah
Commutativity of Intersection with Divisors
- April 2005 Mathematics Colloquium, Georgia State University
Growth of Ideals
- December 2004 Math Circle, University of Utah
Fibonacci
- October 2004 AMS Fall Southeastern Section Meeting, Vanderbilt University
Growth of Ideals
- September 2004 Science Day, University of Utah
Unique Factorization and the Roll of the Dice

Selected Talks (continued)

- June 2004 Mini Course, University of Utah: “Classical Problems in Commutative Algebra”, *Cohen-Macaulay Rings, Injective Modules and Gorenstein Rings, Auslander-Buchsbaum Formula, Chow Group*
- February 2004 Math Circle, University of Utah
Unique Factorization
- September 2003 Graduate Colloquium, University of Utah
The Divisor Class Group of a Noetherian Normal Domain
- April 2003 Commutative Algebra Seminar, University of Utah
The Behavior of the Restriction of Divisor Classes to Sequences of Hypersurfaces
- March/April 2002 Seminar, Washington University in St. Louis
Limiting Behavior on Restrictions of Divisor Classes to Hypersurfaces
- January 2002 Joint Mathematics Meeting, San Diego
Limiting Behavior on Restrictions of Divisor Classes to Hypersurfaces

Honors and Grants

- 2008 AWM-NSF Mentoring Travel Grant, University of Nebraska-Lincoln
- 2007 IMMERSE Fellowship, University of Nebraska-Lincoln
- 2006 NSA & NSF Conference Grants, Snowbird, UT
- 2005 NSA Conference Grant, University of Illinois at Urbana-Champaign
- 2004 AWM-NSF Travel Grant, AMS Sectional Meeting
- 2002 VIGRE Fellowship, University of Illinois at Urbana-Champaign
- 2001 GAANN Fellowship, University of Illinois at Urbana-Champaign
- 2000 METER/IPLP Research Fellowship, University of Illinois at Urbana-Champaign
- 2000 Mathematics Teaching Award, University of Illinois at Urbana-Champaign
- 2000 Incomplete List of Teachers Ranked as Excellent by Their Students, University of Illinois at Urbana-Champaign
- 1994 Presidential Fellowship, Saint Louis University, St. Louis (1994-1996)
- 1990 Phi Beta Kappa, Indiana University, Bloomington

Professional Activities

- 2007-2008 Departmental Webmaster, Seattle University
- 2007-2008 Technology Coordinator, Seattle University
- 2006-2007 Search Committee, Seattle University
- 2006 Rocky Mountain Mathematics Consortium Rep., University of Utah
- 2004-2006 Phi Beta Kappa of Utah Vice President, University of Utah
- 2004-2006 Commutative Algebra Seminar Organizer, University of Utah
- 2002 Capricious Grading Committee, University of Illinois at Urbana-Champaign
- 2002 Computer Steering Committee, University of Illinois at Urbana-Champaign
- 2001 Teaching Awards Chairperson, University of Illinois at Urbana-Champaign

Conferences Organized

- 2006 “Homological conjectures in commutative algebra: A conference in honor of Paul Roberts”, Snowbird, Utah; co-organizer with Jean Chan, Mel Hochster, and Sean Sather-Wagstaff
<http://www.math.utah.edu/~spiroff/paulfest.html>
- 2005 “Commutative Algebra Conference honoring the contributions of Phillip Griffith”, University of Illinois at Urbana-Champaign; co-organizer with Andrew Kustin, Matt Miller, and Anurag Singh
<http://www.math.utah.edu/~spiroff/philfest.html>

Conferences Attended

- June 2005 AMS-IMS-SIAM Summer Research Conference in Commutative Algebra: Local Cohomology and Its Applications, Snowbird, Utah
- February 2005 Career Options for Women in Mathematical Sciences, University of Minnesota
- January 2005 Joint Mathematics Meetings, Atlanta
- July 2003 AMS-IMS-SIAM Summer Research Conference in Commutative Algebra: Presentations by Young Researchers, Snowbird, Utah
- April 2003 Bluegrass Algebra Conference and Hayden-Howard Conference, University of Kentucky (BACH²)
- January 2003 Joint Mathematics Meetings, Baltimore
- March 2002 Commutative Algebra Days, University of Nebraska-Lincoln
- March 2001 AMS Spring Central Section Meeting, University of Kansas

Graduate Students

- Dissertation Committee, Kazuma Shimomoto
Masters Oral Committee, Drew Butcher

Undergraduate Students

- Undergraduate Research, Justin Williams, Seattle University
Undergraduate Research, Timothy Simmons, University of Utah

Refereeing and Reviewing

- Journal of Algebra, referee
Zentralblatt MATH, reviewer

Memberships

- American Mathematical Society
Association for Women in Mathematics
Phi Beta Kappa