

Contact Information

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Personal Data

Date of Birth: 10/25/1976
Place of Birth: Dayton, Ohio
Nationality: US

Education

2001–2007	PhD	Mathematics	University of North Carolina at Chapel Hill
1999–2001	MS	Mathematics	Miami University of Ohio
1995–1999	BS	Mathematics	Miami University of Ohio

Dissertation Adviser: Shrawan Kumar

Dissertation Title: Generalization of the Brylinski-Kostant Filtration and Cohomology of Cotangent Bundles of Flag Varieties

Employment History

- Three-year Assistant Professor (non-tenure track), Tufts University, 2007-2010
- Senior Teaching Fellow at UNC, Fall 2005-Spring 2007
- Teaching assistant and graduate student at UNC, 2001-2007
- Staff position at the Research Experience for Undergraduates at Miami University, summer of 2001
- Teaching assistant and graduate student at Miami University, 1999-2001

Research Interests

Algebraic groups, representation theory, algebraic geometry, and combinatorics.

Talks and Conferences

- Invited talk in the Special Session on Computational Methods in Lie Theory at the AMS sectional meeting, NC State University, Raleigh, NC, April 2009

- Participant in the PIMS Conference in Lie Theory and Geometry in honor of Bertram Kostant, Vancouver, BC, May 2008
- Invited talk at the UMass Amherst Representation Theory seminar, April 2008
- Invited talk at the Fields Institute workshop in Lie Algebras in Ottawa, Ontario, April 2007
- Invited talk at Tufts University, March 2007
- Invited talk in the Special Session on Geometric and Combinatorial Methods in Representation Theory at the AMS sectional meeting, Davidson college, March 2007
- Three Graduate Math Association talks at UNC
- Participant in the the geometry and representation theory conference in honor of George Lusztig's 60th birthday at MIT, summer of 2006.

Papers

- **Cohomology of Flag Varieties and the Brylinski-Kostant Filtration**, J. Algebra 321 (2009), no. 12, 3790–3815.
- **On the B-canonical splittings of flag varieties**, preprint, arXiv:0908.4354.

Honor, Awards, and Memberships

GAANN Fellowship Holder from the UNC Department of Mathematics, Fall 2001 - Spring 2005. This award is given to graduate students who have shown good research potential.

Linker Award Winner from the UNC Department of Mathematics in school year 2006-2007. The Linker award recognizes outstanding teaching ability.

AMS Member 2001 - Present.

Teaching Experience

- Precalculus and Calculus I, Miami University, 3 semesters total between 2000-2001.
- Graduate student assistant, Research Experience for Undergraduates, Miami University, Summer 2001.
- Calculus, courses at all levels, UNC Chapel Hill, 5 semesters total between 2002 and 2007.

- First-year graduate student teaching seminar, Fall of 2005 and 2006 (with Liz Sell).
- Senior teaching fellow at UNC: Job involved mentoring of first-time graduate instructors, school years 2005-2006 and 2006-2007
- Calculus, courses at all levels, Tufts University, 6 semesters total between 2007 and 2009.
- Linear Algebra, Tufts University, 4 semesters total between 2008 and 2009.