

Education

- State University of New York at Stony Brook, Ph.D. mathematics, 2006.
Thesis advisor: Mark Andrea de Cataldo.
Thesis title: Chow motive of Fulton-MacPherson configuration spaces and wonderful compactifications.
- Beijing University, P.R.China, B.S. mathematics, 2001.

Publications, preprints, in preparation

- *Lawson homology, morphic cohomology and Chow motives*,
(with W. Hu), arXiv:0711.0383, Mathematische Nachrichten, to appear.
- *Chow Motive of Fulton-MacPherson configuration spaces and wonderful compactifications*,
Michigan Math. J. 58 (2009), no. 2, 445–478.
- *Wonderful compactifications of arrangements of subvarieties*,
Michigan Math. J. 58 (2009), no. 2, 415–443.
- *The Lawson homology and Deligne-Beilinson cohomology for Fulton-MacPherson configuration spaces*,
(with W. Hu), Algebraic & Geometric Topology 9 (2009) 455–471.
- *q, t -Catalan numbers and generators for the radical ideal defining the diagonal locus of $(\mathbb{C}^2)^n$* ,
(with K. Lee), arXiv:0909.1612, submitted.
- *Notes on a minimal set of generators for the radical ideal defining the diagonal locus of $(\mathbb{C}^2)^n$* ,
(with K. Lee), arXiv:0901.1176, submitted.
- *Higher cohomology of the pluricanonical bundle is not deformation invariant*,
(with N. Hao), arXiv:AG/0612006, submitted.
- *Some degenerations of Kazhdan-Lusztig ideals and multiplicities of Schubert varieties*,
(with A. Yong), arXiv:1001.3437.
- *Kazhdan-Lusztig polynomials and drift configurations*,
in preparation (with A. Yong).
- *Hilbert schemes of points on a Deligne-Mumford stack*,
in preparation.

Professional*Employment history*

- Visiting Assistant Professor, University of Illinois at Urbana-Champaign, Aug.2007–now.
- Research fellow, Korea Institute for Advanced Study, Korea, Sept.2006–Aug.2007.

Short term Visits

- SUNY at Stony Brook, New York, May, 2007.
- Columbia University, New York, April, 2007.
- Hong Kong University, Hong Kong, July, 2004.

Selected Talks

- Algebraic Geometry Seminar, University of Iowa, March 2009.
- Algebraic Geometry Northeastern Series, SUNY at Stony Brook, October 2009.
- Algebra, Geometry and Combinatorics Day, UIUC and Purdue Univ., September 2009.
- Algebraic Geometry Seminar, Purdue Univ., November 2008.
- Math Seminar, Peking Univ., July 2008.
- Algebraic Geometry Seminar, UIUC, 2007, 2008.
- Algebraic, Geometry and Combinatorics seminar, UIUC, 2008.
- Colloquium, Korea Institute for Advanced Study, July, 2007.
- Algebraic Geometry Seminar, Columbia Univ., April, 2007.
- Math Seminar, IAS, Princeton, April, 2007.
- Math Seminar, Korea Institute for Advanced Study, November, 2006.
- Algebra, Geometry and Physics Seminar, SUNY at Stony Brook, November, 2005.

Professional and Community Service

- Co-organizer, CMS meeting, Algebraic Combinatorics Session, June 2010.
- Co-organizer, UIUC Algebraic Geometry Seminar, 2009.
- Co-organizer, UIUC Algebra-Geometry-Combinatorics Seminar, 2009.
- Graduate student representative, SUNY at Stony Brook, 2002-2003.

Honors

- Chair's Award for Outstanding Research, SUNY at Stony Brook, 2006.
- Carnegie Travel Grant Award, SUNY at Stony Brook, 2005.
- Departmental Fellowship, SUNY at Stony Brook, 2004.
- CMO (Chinese Mathematical Olympiad), Ranked First, 1997.
- CMO, Ranked Second, 1996.

Teaching experience

I have over 7 years teaching experience that varies from lower division undergraduate courses to graduate courses, from small classes to large classes with over 250 students. I was listed as one of the *Teachers Ranked as Excellent by Their Students* in Fall 2008. Below is a list of the courses I taught.

Undergraduate courses:

- Calculus I (Stony Brook 2005, UIUC 2007, UIUC 2008 over 200 students)
- Calculus II (Stony Brook 2006, UIUC 2008 & 2009)
- Multivariable Calculus (UIUC 2009 over 250 students)
- Linear Algebra (Stony Brook 2006, UIUC 2007 & 2008)
- A Mathematical World (UIUC 2008, introduction to graph theory and game theory)

Graduate courses:

- Algebraic Geometry (UIUC 2009)
- Algebraic Geometry II: Cohomology (UIUC 2009)