

David E. Anderson

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EDUCATION

- **University of Michigan**
 - Ph.D., 2009 (expected)
 - Thesis advisor: William Fulton
- **Columbia University**, B.A., 2002, *magna cum laude*

TEACHING

- **University of Michigan**
 - Instructor, Calculus I (Fall 2004, Fall 2008)
 - Instructor, Calculus II (Fall 2006)
 - Co-coordinator, Calculus I (Winter 2008)
 - Grader, Algebraic Geometry (Fall 2004, Fall 2005, Winter 2006)
- **Canada/USA Mathcamp** (Summer 2006)
 - Instructor and mentor for five-week program for gifted high-school students. Taught courses on projective geometry, combinatorics, and singularities of plane curves.
- **Middle East Technical University**, Ankara (Fall 2002)
 - Instructor, Calculus I

PUBLICATIONS AND PREPRINTS

- (1) *Degeneracy loci and G_2 flags*, Ph. D. thesis, University of Michigan, in preparation.
- (2) “Degeneracy of triality-symmetric morphisms,” in preparation.
- (3) “Positivity and Kleiman transversality in equivariant K -theory of homogeneous spaces,” with Steve Griffeth and Ezra Miller, arXiv:0808.2785.
- (4) “Chern class formulas for G_2 Schubert loci,” arXiv:0712.2641.
- (5) “Positivity in the cohomology of flag bundles (after Graham),” arXiv:0711.0983.
- (6) “Schubert polynomials and classes of Hessenberg varieties,” with Julianna Tymoczko, arXiv:0710.3182, to appear in *J. Algebra*.
- (7) “A note on quantum products of Schubert classes in a Grassmannian,” *J. Algebr. Comb.* **25** (2007) 349–356.
- (8) “A cusp singularity with no Galois cover by a complete intersection,” *Proc. Amer. Math. Soc.* **132** (2004), 2517–2527.

RESEARCH TALKS

- University of Illinois Urbana-Champaign Algebra, Geometry and Combinatorics Seminar, November 2008
- University of North Carolina Geometric Methods in Representation Theory Seminar, October 2008
- University of Michigan Combinatorics Seminar, September 2008
- University of Iowa Algebraic Geometry Seminar, April 2008
- AMS Sectional Meeting in New York, NY, Special Session on Algebraic Combinatorial Geometry, March 2008
- Queen's University Algebraic Geometry Seminar, March 2008
- University of British Columbia Algebraic Geometry Seminar, February 2008
- University of Minnesota Combinatorics Seminar, January 2008
- University of Utah Algebraic Geometry Seminar, January 2008
- Stanford University Geometry and Combinatorics Seminar, October 2007
- GAeL XV, June 2007
- AMS Sectional Meeting in Storrs, CN, special session on Combinatorial Methods in Equivariant Topology, October 2006

CONFERENCES

- Banff workshop on Recent Progress on the Moduli Space of Curves, March 2008
- MSRI workshop on Deformation Theory and Moduli in Algebraic Geometry, Summer 2007
- GAeL conference for young algebraic geometers, Summer 2007
- AMS Sectional Meeting in Storrs, CN, Fall 2006
- Oberwolfach workshop on Algebraic Stacks, Fall 2006
- AMS Summer Research Institute in Algebraic Geometry, Summer 2005
- Fields Institute workshop on Schubert varieties and Schubert calculus, June 2005

OTHER MATHEMATICAL ACTIVITIES

- (Co-)organized University of Michigan student algebraic geometry seminar, 2005–2007.
- Co-organized University of Michigan student workshop on curves and moduli, December 2006.
- Co-organized Columbia University student seminar on combinatorics and equivariant cohomology, Spring 2007.
- Reviewer for Mathematical Reviews.

FELLOWSHIPS AND AWARDS

- RTG Graduate fellowship, University of Michigan.
- VIGRE graduate fellowship, University of Michigan.
- VIGRE undergraduate scholarship, Columbia University.
- Van Amringe Prize (Columbia University undergraduate math competition), 2000.
- Dolan Prize for instrumental study (classical guitar), 2000-2001.

REFERENCES

William Fulton, wfulton@umich.edu

Sergey Fomin, fomin@umich.edu

Ezra Miller, ezra@math.umn.edu

Ravi Vakil, vakil@math.stanford.edu

Karen Rhea, krhea@umich.edu (teaching)