

# DANIEL S. ROGALSKI

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## Research Interests

- Noncommutative algebra, especially interactions between algebraic geometry and noncommutative ring theory

## Employment

- **University of California San Diego**—La Jolla, CA  
2005-present
  - Associate Professor
- **Massachusetts Institute of Technology**—Cambridge, Massachusetts  
2002-2005 (*on leave 2002-2003*)
  - C.L.E. Moore Instructor and NSF postdoctoral fellow
- **University of Washington**—Seattle, Washington  
2002-2003
  - NSF postdoctoral fellow

## Education

- **University of Michigan**—Ann Arbor, Michigan  
1997-2002
  - Ph.D. in Mathematics, May 2002
  - Dissertation: *Examples of Generic Noncommutative Surfaces*, advisor Professor J. T. Stafford.
- **State University of New York at Stony Brook**—Stony Brook, New York  
1995-1997
  - M.M. in Piano Performance, May 1997
- **Yale University**—New Haven, Connecticut  
1991-1995
  - B.A. in Mathematics, summa cum laude, May 1995.

## Awards and Fellowships

- NSF Standard Grant, 2009-2012.
- NSF Standard Grant, 2006-2009.

- NSF Postdoctoral Research Fellowship, 2002-2005.
- Clay Mathematics Institute Liftoff Fellowship, Summer 2002.
- Sumner Myers Award, Michigan Department of Mathematics, 2002.
- Wirt and Mary Cornwell Prize, Michigan Department of Mathematics, 2002.

## Publications and preprints

- "Blowup subalgebras of the Sklyanin algebra", preprint, arXiv:0912.2304.
- (with J. Bell and S. J. Sierra), "The Dixmier-Moeglin equivalence for twisted homogeneous coordinate rings", preprint, arXiv:0812.3355.
- "GK-dimension of birationally commutative surfaces", *Trans. Amer. Math. Soc.* **361** (2009), no. 11, 5921–5945.
- (with J. T. Stafford), "A class of noncommutative projective surfaces", *Proc. Lond. Math. Soc.* **99** (2009), no. 1, 100–144.
- (with J. J. Zhang), "Canonical maps to twisted rings", *Math. Z.* **259** (2008), no. 2, 433–455.
- (with J. T. Stafford), "Naïve noncommutative blowups at zero-dimensional schemes", *J. Algebra* **318** (2007), no. 2, 794–833.
- (with Z. Reichstein and J. J. Zhang), "Projectively simple rings," *Adv. Math.* **203** (2006), no. 2, 365-407.
- (with D.S. Keeler and J. T. Stafford), "Naïve noncommutative blowing Up", *Duke Math. J.* **126** (2005), no. 3, 491-546.
- "Idealizer rings and noncommutative projective geometry," *J. Algebra* **279** (2004), no. 2, 791-809.
- "Generic noncommutative surfaces," *Adv. Math* **184** (2004), no.2, 289-341.

## Selected presentations

- Southern California Algebraic Geometry Conference, April 2010.
- USC Algebra Seminar, March 2010.
- RIMS, Kyoto, Japan, Noncommutative algebraic geometry and related topics conference, August 2009 (gave an hour and a half invited expository address.)
- Banff International Research Station, Interactions between noncommutative algebra and algebraic geometry, October 2008.
- U. British Columbia, AMS regional meeting, October 2008.
- PIMS Alberta/British Columbia algebra conference, Simon Fraser University, Vancouver BC, April 2008.
- Algebra seminar, U.C. Santa Barbara, November 2007.
- Trends in noncommutative geometry conference, Newton Institute, Cambridge, U.K., December 2006.
- Southern California algebra conference, UCLA, November 2006.
- Fudan University, Shanghai, China, Conference on noncommutative geometry, September 2006.

- Oberwolfach Institute, Germany, Conference on interactions between algebraic geometry and noncommutative algebra, May 2006.
- U. C. San Diego, Algebra seminar, December 2005.
- University of Oregon, AMS regional meeting, November 2005.
- Banff International Research Station, Interactions between noncommutative algebra and algebraic geometry, September 2005.
- U.C. Santa Barbara, AMS regional meeting, April 2005.
- Western Kentucky University, AMS regional meeting, March 2005.
- Wayne State, Colloquium, January 2005.
- Kansas State, Colloquium, January 2005.
- Warwick Maths Institute, U.K., Workshop on noncommutative algebra and algebraic geometry, June 2004.
- Mittag-Leffler Institute, Sweden, Workshop on noncommutative algebraic geometry, January 2004.

## Teaching 2005-present

- In 2009-2010, I taught Math 100a-b (the first 2/3 of the undergraduate algebra class), Math 109 (mathematical reasoning), and Math 20c (multivariable calculus).
- In 2008-2009, I will teach Math 200a and 200c (2/3 of the graduate algebra sequence), a graduate topics course, and Math 20b (integral calculus).
- In 2007-2008, I taught Math 103a-b (applied abstract algebra I-II), Math 20b (integral calculus), and Math 20d (differential equations).
- In 2006-2007, I taught two graduate topics courses (one on noncommutative geometry and one on quiver representations), Math 103a (applied abstract algebra I), and Math 109 (mathematical reasoning).
- In 2005-2006, I taught Math 103a-b (applied abstract algebra I-II) and Math 109 (mathematical reasoning).

## Service and Professional Activities

- During 2010-2011 I will advise a postdoctoral fellow, Manny Reyes, who is coming to UCSD with a UC President's Postdoctoral Fellowship.
- Advisor currently for two PhD students, Amy Irwin and James Berglund.
- Coordinator, Southern California algebra conference, a twice-yearly day-long meeting at UCLA.
- Co-coordinator of special session "Interactions between algebraic geometry and noncommutative algebra," AMS regional meeting, Riverside CA, November 2009.
- Reviewer for several grant proposals for NSF and NSA.
- Referee for Journal of Algebra (4), Transactions of the AMS (1).
- Panelist for a session about applying for grants for project NeXT fellows, MAA regional meeting, University of San Diego, March 2008.

- Co-coordinator of special session "Interactions between algebraic geometry and noncommutative algebra," AMS national meeting, San Diego CA, January 2008.
- Panel member, math department seminar for graduate students on finding an academic job, May 2006, May 2007.
- Co-coordinator of special session "Noncommutative algebraic geometry," AMS regional Meeting, Miami, OH, March 2007.
- Coordinator, Graduate student algebra seminar, UCSD math department, Spring 2006, Fall 2006, Winter 2009.