

Jarod Alper

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EDUCATION

Stanford University, Stanford, California.

- Ph.D. in Mathematics, June 2008 (expected).
- Thesis advisor: Ravi Vakil.

Brown University, Providence, RI.

- Sc.B. with honors in Mathematics, Sc.B. in Computer Science, Magna Cum Laude, May 2002.

RESEARCH INTERESTS

- Algebraic geometry: moduli spaces, algebraic stacks and invariant theory.

HONORS

- Fulbright Fellow, Ruprecht-Karls-Universität Heidelberg, 2002-2003.
- Finalist for Hertz Foundation Graduate Fellowship, 2002.
- David Howell Premium for Excellence in Mathematics and Natural Philosophy, 2002 (awarded to three graduating seniors).
- Phi Beta Kappa, 2002.
- Sigma Xi, 2001.
- First place in the Henry Parker Manning Mathematical Prize, 2001 (Brown junior competition).

PUBLICATIONS

Primary articles

- J. Alper, *Good moduli spaces of Artin stacks*, draft available on <http://math.stanford.edu/~jarod>.
- J. Alper, *Local properties of Artin stacks and their moduli spaces*, draft available on <http://math.stanford.edu/~jarod>.
- J. Alper, *From Artin stacks to classical invariant theory: Gel'fand-MacPherson, Gale, and positive characteristic Kontsevich*, in preparation.

Secondary articles

- J. Theiler and J. Alper, *On the choice of random directions for stochastic approximation algorithms*, IEEE Trans. Automat. Control **51** (2006), no. 3, 476-481.
- M. Abouzaid, J. Alper, S. DiMauro, J. Grosslight, and D. Smith. *On cosets of the unit loop of octonion integers*, Communications in Algebra **35** (2007), no. 1, 207-214.
- M. Abouzaid, J. Alper, S. DiMauro, J. Grosslight, and D. Smith. *Common left- and right-hand divisors of a quaternion integer*, submitted to Journal of Pure and Applied Algebra.

TEACHING EXPERIENCE

- *Teaching Assistant for Math 51H* - Honors Multivariable Mathematics, Stanford University, Fall 2006.
- *Teaching Assistant for Math 51* - Linear Algebra and Differential Calculus of Several Variables, Stanford University, Fall 2005.
- *Teaching Assistant for Math 52* - Integral Calculus of Several Variables, Stanford University, Winter 2005.
- *Course Assistant for Math 19, 51, 113, 210A, 210B, 216A and 216B*, Stanford University, 2003-2007.
- *Teaching Assistant for CS51* - Models of Computation, Brown University, Fall 2000.
- *Teaching Assistant for CS22* - Discrete Mathematics, Brown University, Spring 2000.

INVITED TALKS

- *Conference on Geometric Invariant Theory*, Göttingen (Germany), June 2008.
- *Géométrie Algébrique en Liberté*, Madrid (Spain), April 2008
- *Algebra and Algebraic Geometry Seminar*, Brown University, April 2008.
- *Groupoids in Analysis and Geometry Seminar*, University of California, Berkeley, April 2008.
- *Geometry/Topology Seminar*, University of Missouri-Columbia, March 2008.
- *Algebraic Geometry Seminar*, Rice University, February 2008.
- *Algebraic Geometry Seminar*, University of Michigan, January 2008.
- *Eidgenössische Technische Hochschule Zürich* (Switzerland), January 2008.
- *Winter School and Conference on Moduli Spaces*, University and Max Planck Institute for Mathematics, Bonn (Germany), January 2008.
- *C.M.S. Winter Meeting*, London (Canada), December 2007.
- *American Institute of Mathematics*, Palo Alto, May 2007.
- *A.M.S. Sectional Meeting*, Tucson, April 2007.
- *Algebraic Geometry Seminar*, Stanford University, April 2007.
- *Combinatorial Algebraic Geometry Seminar*, Stanford University, December 2006.
- *Lecture series on "Quotients in algebraic geometry"* (three lectures including area exam), Stanford University, May 2006.
- *Lunchtime Algebraic Geometry Seminar* w/ Nikolay Penev, Stanford University, May 2005.

PROFESSIONAL ACTIVITIES

- Invited participant of workshop *Classical Algebraic Geometry* at Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany, 2008.
- Teaching assistant for MSRI Summer Graduate Student Workshop *Deformation Theory and Moduli in Algebraic Geometry*, July 2007.
- Organize student algebraic geometry seminar at Stanford University, 2006-present.

REFERENCES

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Martin Olsson
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Max Lieblich
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Adrian Clingher (teaching)
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