

Martin Olsson

Address:

Department of Mathematics
970 Evans Hall #3840
University of California
Berkeley, CA 94720-3840
molsson@math.berkeley.edu
<http://www.math.berkeley.edu/~molsson>

Education:

- Harvard University, Mathematics, A.B., 1997.
- University of California, Berkeley, Mathematics, Ph.D., 2001 (Advisor: Arthur Ogus).

Appointments:

- Professor, University of California, Berkeley, Fall 2010–present.
- Associate Professor, University of California, Berkeley, Fall 2008–spring 2010.
- Assistant Professor, University of California, Berkeley, Fall 2006–2008.
- Assistant Professor, University of Texas at Austin, , Fall 2004–Spring 2006.
- Mathematical Sciences Research Institute, Research Professor, Spring 2009.
- Institute for Advanced Study, Member, Fall 2004–Spring 2005.
- Massachusetts Institute of Technology, Moore Instructor of Mathematics and NSF post–doctoral research fellow, Fall 2001–Spring 2004.
- Mathematical Sciences Research Institute postdoctoral fellow, Spring 2001.

Short-term visits

- Institut Mittag-Leffler, May–June 2007.
- École Polytechnique, France, June 2005.
- Université de Rennes, France, June 2003.
- Université Paris-Sud, Orsay, France, May 2002.

Awards/Honors:

- NSF CAREER grant DMS-0748718, 2008–2013.
- Alfred P. Sloan Research Fellowship, 2006–2008.
- NSF grant DMS-0555827, 2006–2009.
- National Science Foundation post–doctoral research fellowship, 2001–2004.
- Clay Mathematics Institute Liftoff Fellowship, Summer 2001.

Selected talks:

- *Localized cycle classes and local terms*, Conference on Moduli spaces and moduli stacks, Columbia, NY 05/2010.
- *Main components of moduli spaces and log geometry*, Classical algebraic geometry today, MSRI, Berkeley, 01/2009.
- *Algebraic stacks and l -adic cohomology*, Aspects de la géométrie algébrique: la postérité mathématique de Grothendieck, IHES, France, 01/2009.
- *Constructing integral models for moduli spaces of G -torsors*, Western Algebraic Geometry Seminar, Salt Lake City, Utah, 11/2008.
- *Fujiwara’s theorem for equivariant correspondences*, Oberwolfach, Germany, 08/2008.
- *A higher dimensional version of generalized elliptic curves*, Conference on curves, abelian varieties and their interactions at University of Georgia, 03/2007.
- *Grothendieck’s six operations for sheaves on Artin stacks*, Conference on Hodge theory, San Servolo, Italy, 06/2006.
- *A modular compactification of A_g over the integers*, Moduli, compactifications, and related topics (in honor of Y. Namikawa’s sixtieth birthday), Nagoya, Japan, 10/2005.
- *Non-abelian P -adic Hodge theory*, AMS summer institute on algebraic geometry, Seattle, 08/2005.
- *Non-abelian P -adic Hodge theory*, Entre Bures et Orsay: une conférence de géométrie algébrique en l’honneur de Luc Illusie, Orsay, France, 07/2005.
- *Non-abelian p -adic Hodge Theory in the good reduction case*, Conference on arithmetic geometry, Gainesville, 02/2005.
- *Moduli of $K3$ surfaces*, Compact moduli spaces and birational geometry, American Institute of Mathematics, 12/2004.
- *F -isocrystals and homotopy types*, Conference on Arithmetic geometry including algebraic cycles, modular forms, p -adic cohomology, loggeometry. In Tokyo, Japan, 02/2004.
- *F -isocrystals and homotopy types*, AMS annual meeting in Phoenix, AZ. Special session on arithmetical algebraic geometry, 01/2004.
- *Crystalline cohomology of schemes with tame reduction*, A Cohomological Week in Rennes in celebration of P. Berthelot’s 60–th birthday, Rennes, France 06/2003.
- *Schematic homotopy types associated to isocrystals*, Categories 2 conference, Nice, France, 05/2003.
- *Logarithmic geometry and algebraic stacks*, Workshop on Intersection theory on stacks at MSRI, Berkeley, CA, 03/2002.

Seminar talks

I have given one or more seminar talks at the following institutions: Columbia, U. of Arizona, SUNY Stony Brook, Texas Algebraic Geometry Seminar, Brown University, University of Ohio, Notre Dame University, University of Texas at Austin, Rice University, University of Illinois at Urbana-Champaign, Indiana University, University of Utah, University of Minnesota, University of Connecticut, University of Massachusetts, Stanford University, Harvard/MIT joint algebraic geometry seminar, University of California at Berkeley, Columbia University, Purdue University, Université Paris-Sud (France), Université Paris 13 (France).

Seminars and Conferences Organized:

- Co-organizer of the conference ‘Representation theory, geometry, and combinatorics: Equivariant algebraic geometry and related topics.’ Berkeley, May 26-29, 2009.
- Co-organizer of the conference ‘Western Algebraic Geometry Seminar’ in Berkeley, April 25-26, 2009.

- Co-organizer of joint Berkeley-Stanford algebraic geometry colloquium, Fall 2006 –Fall 2008, Fall 2009-2010.
- Co-organizer of MSRI summer graduate workshop on Deformation Theory and Moduli in Algebraic Geometry, July 23–August 3, 2007. Also gave a series of 8 lectures at this workshop.
- Co-organizer of Texas Algebraic Geometry Seminar, Texas A&M, May 2006.

Graduate Students:

Past Ph.D. Students: Ishai Dan-Cohen (joint with Ogus, Ph.D. 2010), Matthew Satriano (Ph.D. 2010), Shenghao Sun (Ph.D. 2010).

Current Ph.D. Students (indicating here only students past the qualifying exam): Jae-Young Park, Yuhao Huang, Lasse Peter Mannisto, Andrew Critch, Andrew Niles, Katrina Honigs.

Service to University of California:

- (1) Member of Graduate Council (campus wide committee), 2009-2010, 2010-2011, 2011-2012.
- (2) Mathematics Department Schedule Committee, 2010-2011.
- (3) Mathematics Department Alexander Prize Committee (chair), 2009-2010.
- (4) Mathematics Department Ribet/Goldberg Prize Committee, 2008–2009.
- (5) Mathematics Department Graduate Admissions Committee, 2008–2009, 2009-2010, 2010-2011.
- (6) Mathematics Department Graduate Program Policy Committee, 2008-2009.
- (7) Member of Scholar Mentorship Subcommittee of Committee on Undergraduate Scholarship and Honors, 2007-2008.
- (8) Mathematics Department Prelim Exam Committee, 2007–2008.
- (9) Mathematics Department Graduate Appointments Committee, 2007–2008.

Teaching

University of California Berkeley .

As Faculty Member:

- (1) Homological Algebra (Math 253), Spring 2011.
- (2) Undergraduate Number Theory (Math 115), Fall 2010.
- (3) Graduate Algebra (Math 250A), Fall 2009.
- (4) Calculus (Math 1A), Fall 2008.
- (5) Graduate Algebraic Number Theory (Math 254A), Fall 2008.
- (6) Algebraic Geometry (Math 256), Fall 2007, Spring 2008, Fall 2009.
- (7) Topics in Algebra: Stacks (Math 274), Spring 2007.
- (8) Calculus (Math 1B), Fall 2006 and Fall 2010.
- (9) Numerous reading courses for graduate students and undergraduate students.
- (10) Weekly Ph.D. student seminar each semester.

As graduate student:

- (1) Instructor for undergraduate complex analysis (summer 2000).
- (2) Instructor for calculus course (summer 1999).
- (3) Recitation instructor for numerous calculus courses.

University of Texas at Austin.

- (1) Differential and Integral Calculus (408C), Spring 2006.
- (2) Algebraic structures I, Fall 2005.

Massachusetts Institute of Technology.

- (1) Undergraduate seminar in algebra and number theory (18.704), Spring 2004.
- (2) Graduate algebraic geometry (18.725), Fall 2003.
- (3) Undergraduate number theory (18.781), Spring 2003.
- (4) Calculus recitations (18.02), Fall 2002.

Other Professional Activities:

- Grant reviewer for NSF, NSA, and various European funding agencies.
- Referee for numerous journals including Duke Math Journal, Publ. Math. de l'IHES, Inventiones Mathematicae, Annals of Math, Journal of Algebraic Geometry, Adv. in Math., Trans. of the AMS, and Manuscripta Mathematica among others.
- Reviewer for MathSciNet.