Andrew Cotton-Clay

Contact Information	Department of Mathematics South Hall, Room 6607 University of California Santa Barbara, CA 93106-3080	(cottoncl http://math.ucsb	Cell: (510) 220-8000 ay@math.ucsb.edu .edu/~cottonclay
Education	 University of California, Berkeley, M.A. (2005) & Ph.D. (2009) Herbert Alexander Prize for outstanding thesis in mathematics (one of two given) Field: Mathematics Advisor: Michael Hutchings Massachusetts Institute of Technology, Visiting graduate student (2008-2009) Field: Mathematics Advisor: Denis Auroux Harvard University, A.B. & A.M. (2003) magna cum laude with highest honors in mathematics David Mumford Prize for most promising senior in mathematics (only one given) Field: Mathematics Advisor: Peter Kronheimer 		
Positions	UC Santa Barbara	Visiting Assistant Professor	2014–present
	Harvard University	Benjamin Peirce Lecturer and NSF Postdoctoral Fellow and Lecturer on Mathematics	2009–2014
	Mathematical Sciences Research Institute (MSRI)	Research Fellow	2009-2010
Honors and Awards	 Harvard University Certificate for Teaching Excellence, Spring 2010 Herbert Alexander Prize for outstanding thesis in mathematics (UC Berkeley), 2009 NSF Postdoctoral fellowship, 2009-2012 NSF Graduate Research fellowship, 2003-2006 David Mumford Undergraduate Mathematics Prize, most promising senior (Harvard), 2003 Robert Fletcher Rogers Prize (first place), best undergraduate mathematics talk (Harvard), 2003 Putnam Competition: Top 25, Top 60, Top 100 (twice), 1999-2002 Harvard University Certificate of Distinction in Teaching, Spring and Fall 2001 		
PUBLICATIONS	 A. Cotton-Clay, Holomorphic Pairs of Pants in Mapping Tori, preprint. A. Cotton-Clay, A sharp bound on fixed points of surface symplectomorphisms in each mapping class, arXiv:1009.0760, accepted to Geometry & Topology. A. Cotton-Clay, Symplectic Floer homology of area-preserving surface diffeomorphisms, Geom. Topol. 13 (2009), no.5, 2619-2674. 		

A. Cotton, D. Freeman, A. Gnepp, T. Ng, J. Spivack, and C. Yoder, The isoperimetric problem on some singular surfaces Journal of the Australian Mathematical Society 78:2 (April 2005), 167-199.
 A. Cotton and D. Freeman, The double bubble problem in spherical and hyperbolic space, International Journal of Mathematics and Mathematical Sciences 32:11 (15 Dec 2002), 641-699.
 UNDERGRADUATE Philip Mocz, The Poincaré-Birkhoff Fixed Point Theorem and Periodic Orbits in the Restricted Three Body Problem, 2011-2012

 Laura Starkston, Contact Structures and Classifications of Legendrian and Transverse Knots, 2009-2010

TEACHING

At UC Santa Barbara

- Two advanced undergraduate courses (real analysis)
- One introductory undergraduate course

At Harvard:

- Four graduate courses (differential geometry, symplectic topology)
- Five advanced undergraduate courses (topology, complex analysis, algebra)
- Two multivariable calculus courses

At UC Berkeley:

• One calculus course

As Teaching Fellow / Graduate Student Instructor / Course Assistant:

- Two courses as a graduate student at Berkeley
- Two courses as an undergraduate at Harvard

Professional Activities

- Assistant Director of Graduate Studies, Harvard Mathematics Department, 1 year
- Graduate Admissions Committee, Harvard Mathematics Department, 3 years
- Intensive Advising, Harvard Mathematics Department, 2 years
- Referee for four professional journals
- Co-organizer for Gauge Theory & Topology seminar at Harvard, 9 semesters