

Garrett Alston

CONTACT INFORMATION	Department of Mathematics The University of Oklahoma Norman, OK 73019-3103 galston@math.ou.edu http://www2.math.ou.edu/~galston
RESEARCH INTERESTS	Symplectic Geometry, Contact Geometry, Hamiltonian Dynamics, Quantum Mechanics
EDUCATION	University of Wisconsin-Madison , Madison, Wisconsin Ph.D. in Mathematics, June 2010 <ul style="list-style-type: none">• Advisor: Yong-Geun Oh• Thesis Title: Floer cohomology of real Lagrangians in the Fermat quintic 3-fold M.S. in Mathematics, June 2009 University of Chicago , Chicago, IL B.A. in Mathematics, June 2001
EMPLOYMENT	The University of Oklahoma , Norman, Oklahoma Visiting Assistant Professor, Fall 2014-present Chinese University of Hong Kong , Hong Kong Postdoctoral Fellow, Fall 2013-Spring 2014 Kansas State University , Manhattan, Kansas I-Center Postdoctoral Fellow, Fall 2010-Summer 2013
GRANTS, AWARDS AND HONORS	<ul style="list-style-type: none">• NSF-DMS award 1108397, research grant, Fall 2011-Summer 2013• NSF-DMS award 1137506, joint with Yan Soibelman, conference grant, conference date November 3-6, 2011• NSF VIGRE Fellowship Summer 2008, Spring 2009, Summer 2009, Summer 2010.
PUBLICATIONS	<i>Exact, graded, immersed Lagrangians and Floer theory</i> , arXiv:1407.3871, joint with Erkao Bao, accepted in the Journal of Symplectic Geometry. <i>Floer cohomology of immersed spheres in smoothings of A_n surfaces</i> , arXiv:1311.2327 <i>Floer cohomology of real Lagrangians in the Fermat quintic threefold</i> , arXiv:1010.4073. <i>Floer cohomology of torus fibers and real lagrangians in Fano toric manifolds</i> , joint with Lino Amorim, Int. Math. Res. Not. IMRN 2012, no. 12, 2751V2793; arXiv:1003.3651. <i>Lagrangian Floer homology of real projective space and the Clifford torus in odd dimensions</i> , Journal of Symplectic Geometry, 2011, Volume 9 Issue 1; arXiv:0902.0197.

INVITED TALKS

- SYZ and Mirror Symmetry Mini-Workshop, Harvard Center of Mathematical Sciences and Applications, November 28, 2016.
- Center for Geometry and Physics Seminar, Institute of Basic Science, POSTECH, Korea, June 18, 2015.
- Hong Kong Geometry Colloquium, Chinese University of Hong Kong, January 10, 2015.
- Colloquium, Iowa State University, October 28, 2014.
- East Asian Symplectic Conference 2013, Kagoshima University, Japan, September 18-23, 2013.
- Karcher Colloquium, University of Oklahoma, March 14, 2013.
- Symplectic Geometry Seminar, Columbia University, April 27, 2012.
- Special Session on Mirror Symmetry, University of Kansas, March 30-April 1, 2012.
- Symplectic Geometry Seminar, Vanderbilt University, March 27, 2012.
- Conference on Homological Mirror Symmetry, University of Miami, January 23-27, 2012.
- Workshop on Symplectic Field Theory V, Universitat Hamburg, Hamburg, Germany, August 20-26, 2011.
- Sixth Pacific Rim Conference on Complex Geometry, Korea Institute for Advanced Study, Gyeong Ju, Korea, August 8-12, 2011.
- Georgia Topology Conference, University of Georgia, May 18-22, 2011.
- International Conference on Mirror Symmetry and Gromov-Witten Theory, Seoul National University, Seoul, Korea, January 11-15, 2010.

TEACHING EXPERIENCE

The University of Oklahoma

- Calculus I, Fall 2014
- Calculus II, Fall 2014, Spring 2015, Fall 2015
- Linear Algebra Spring 2016
- Differential Equations Fall 2016, Spring 2017

Chinese University of Hong Kong

- Seminar for Undergraduate Math Majors, Spring 2014

Kansas State University

- Elementary Geometry for Elementary Ed Majors, Fall 2010, Fall 2012, Spring 2013
- Topics Course: Kähler Geometry, Spring 2012
- Topics Course: Symplectic Geometry, Fall 2011

- Matrix Theory, Summer 2011
- Business Calculus I, Spring 2011, Fall 2011

University of Wisconsin-Madison

- College Algebra, Fall 2006, Fall 2006
- TA, Calculus II for Social Sciences, Fall 2007, Fall 2008.
- Trigonometry, Spring 2007.
- TA, Calculus II, Spring 2006.
- TA, Calculus I, Fall 2005.

ACTIVITIES

- Referee for Transactions of the American Mathematical Society, Journal of Differential Geometry, Journal of Symplectic Geometry, Turkish Journal of Mathematics.
- Mentored one undergraduate in Spring 2012 as part of Kansas State I-Center Scholar program
- Organizer for Mirror Symmetry in the Midwest conference, Kansas State University, November 3-6, 2011.
- Mentored one undergraduate in Fall 2011 as part of Kansas State I-Center Scholar program
- Mentored two undergraduates in Summer 2011 as part of Kansas State REU
- Topology and Geometry summer review class for graduate students, Summer 2008 and 2009
- Co-organizer for Great Lakes Geometry Conference, University of Wisconsin, Madison, April 10-11, 2010.
- Co-organizer for Graduate Student Topology and Geometry Conference, University of Wisconsin-Madison, 2009.
- Organizer for Fall 2006 Graduate Student Topology Seminar, University of Wisconsin-Madison.

COMPUTER SKILLS

- Sage, MATLAB, SciLab, Macauley, Magma, Java, C/C++, Visual Basic, Cache, SQL.