

Curriculum Vitae

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Education/Employment

- 2012 Postdoctoral Research Associate, Michigan State University,
- 2012 Ph.D. University of Minnesota, Mathematics (advisor: Tian-Jun Li)
- 2006 Sc.B. Peking University, Mathematics

Research interests

Symplectic geometry and topology

Grants and Awards

2013-2015 AMS-Simons travel grant.

Publications

Articles and preprints

1. Note on a theorem of Bangert,
Acta Math. Sin. (Engl. Ser.) 28 (2012), no. 1, 121-132. (with T.-J. Li).
2. Lagrangian spheres, symplectic surfaces and symplectic mapping class groups,
Geometry & Topology 16 (2012), 1121-1169 (with T.-J. Li).
3. Symplectormorphism groups of non-compact manifolds and space of Lagrangians,
J. Symplectic Geom., to appear, *arXiv:1305.7291* (with R. Hind, M. Pinsonnault).
4. On an exotic Lagrangian torus in $\mathbb{C}P^2$.
Submitted, arXiv:1201.2446v1.
5. Spherical Lagrangians via ball packings and symplectic cutting.
Selecta Math. (N.S.), to appear, published online, *arXiv 1211.5952* (with M. S. Borman and T.-J. Li.).
6. Exact Lagrangians in A_n -surface singularities.
Math. Ann., to appear, *arXiv 1302.1598*.

7. On the symplectic mapping class groups of small rational manifolds.
Submitted, arXiv:1310.7329 (with J. Li and T.-J. Li).
8. A note on symplectic surfaces with $\kappa = -\infty$.
preprint available upon request (with J. Dorfmeister and T.-J. Li) .
9. Detecting non-displaceable Lagrangians in toric degenerations,
a preliminary version available at <http://math.msu.edu/~wwwu/>

Articles in progress

10. (with Guangbo Xu) Chain level Vortex Floer cohomology.
11. (with M. Pinsonnault) Hamiltonian groups of Del Pezzo surfaces.
12. (with W. Chen and T.-J. Li) Symplectic plane Cremona maps.

Invited talks

- 2014 Feb. IBS-CGP in POSTECH *I. Some topological problems in symplectic geometry; II. Symplectic Cremona Maps*
- 2013 Oct. U of Massachusetts, Amherst, workshop on “Group actions on smooth 4-manifolds” : *Symplectic Plane Cremona Maps*
- 2013 Apr. U of Minnesota, Workshop and Conference on the Topology and Invariants of Smooth 4-Manifolds : *On some new aspects of symplectic packing problems;*
- 2013 Apr. Sun Yat-Sen U, Colloquium talk: *Aspects of non-compact symplectic manifolds;*
- 2013 Mar. U Miami, FRG Topology Workshop 2013: *Ball-swappings and their applications;*
- 2012 Mar. Mirror Symmetry special session, Spring AMS regional meeting: *Lagrangian $\mathbb{R}P^2$ as toric degeneration singularities;*
- 2011 June U of Georgia, Georgia Topology Conference: *Lagrangian spheres, symplectic surfaces and symplectic mapping class groups;*
- 2010 Dec. Sun Yat-Sen U, Colloquium talk: *Lagrangian spheres, symplectic surfaces and symplectic mapping class groups.*

Invited seminar talks/Contributed talks

- 2014 Apr. University of Chicago *Symplectic Mapping class groups and Lagrangians;*
- 2014 Mar. University of Miami, FRG conference *Tilted transport in Lefschetz fibrations;*
- 2014 Jan. University of California, Irvine *Symplectic Cremona Maps;*

- 2013 Sept. University of Southern California, *Ball-swappings and their applications*;
- 2013 Mar. University of Notre Dame, *Ball-swappings and their applications*;
- 2013 Feb. University of Minnesota, *Exact Lagrangians in A_n -surface singularities*;
- 2012 Feb. Michigan State University, *Exact Lagrangians in A_n -surface singularities*;
- 2013 Jan. University of Minnesota, *Ten Lecture series on Hofer geometry and Calabi Quasi-morphisms*;
- 2012 Sept. Michigan State University, *Spherical Lagrangians via ball packings and symplectic cutting*;
- 2012 Mar. U of Georgia, *Lagrangian \mathbb{RP}^2 as toric degeneration singularities*;
- 2012 Mar. U of Minnesota, *On an exotic Lagrangian torus*;
- 2012 Mar. U of Chicago, *Lagrangian spheres, symplectic surfaces and symplectic mapping class groups*;
- 2011 Nov. Kansas State U, Mirror Symmetry in the Midwest Conference (Poster session): *Detecting non-displaceable Lagrangians in toric degenerations*;
- 2011 Oct. U of Minnesota, *On the homotopy type of symplectomorphism groups of non-compact manifolds*;
- 2010 Sept. U of Minnesota, *Lagrangian spheres, symplectic surfaces and symplectic mapping class groups*.

Professional activities

Professional Services

2012- MR Reviewer

2009-2010 Organizer of *Student seminar in symplectic geometry* in U of Minnesota

Conferences Attended

November 2011, Mirror Symmetry in the Midwest Conference;
 October 2011, Chern Centennial Conference;
 June 2011, MIT-RTG Geometry Workshop: Fukaya categories via microlocal sheaf theory;
 March 2010, Symplectic and Contact Topology and Dynamics: Puzzles and Horizons;
 October 2009, 4th Illinois Indiana Symplectic Geometry Conference;
 August 2009, Introductory Workshop: Tropical Geometry;
 August 2009, Introductory Workshop: Symplectic and Contact Geometry and Topology;
 May 2009, Talbot 2009, North Carolina

December 2008, CBMS Conference on Tropical Geometry & Mirror Symmetry;
November 2008, Indiana-Illinois Symplectic Geometry Conference;
November 2007, CDM 2007, Harvard University

Teaching activities

2012 Fall Linear Algebra, Instructor
2011 Spring Math 2372, CSE Calculus II, TA
2011 Spring Math 1031, College Algebra and Probability, TA
2010 Fall Math 1271, Calculus I, TA
2010 Summer Math 1142, Short Calculus, Lecturer
2010 Spring Math 1272, Calculus II, TA
2009 Fall Math 2263, Multivariable Calculus, TA
07–09 Spring Math 1031, College Algebra and Probability, TA

References

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