

Weiwei Wu

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RESEARCH INTERESTS	Symplectic geometry/topology, homological mirror symmetry and related algebraic geometry, low-dimensional topology	
EMPLOYMENT	University of Georgia Assistant Professor	2016-present
	Centre de recherches mathématiques and Université de Montréal CRM-ISM postdoctoral fellow	2014-2016
	Michigan State University FRG postdoctoral fellow	2012-2014
EDUCATION	University of Minnesota , Ph. D. 2012 Peking University , B. S. 2006	
PUBLICATIONS	Published/Preprint <ol style="list-style-type: none">(1) Symplectic rational G-surfaces and equivariant symplectic cones. <i>Submitted,</i>, arXiv:1708.07500 (with W. Chen and T.-J. Li)(2) Symplectic 2 spheres and the symplectomorphism group of small rational 4-manifolds <i>arXiv:1611.07436</i>, (with J. Li and T.-J. Li)(3) A note on handle attaching in monotone wrapped Fukaya categories <i>Preprint</i>, (with C.-Y. Mak)(4) Dehn twists exact sequences through Lagrangian cobordism <i>Submitted</i>, arXiv:1509.08028 (with C.-Y. Mak)(5) Gauged Floer homology and spectral invariants. International Mathematics Research Notices, rnx005 (with G. Xu)(6) Equivariant split generation and mirror symmetry of special isogenous tori. Advances in Mathematics, Accepted. arXiv:1501.06257.(7) Stability and existence of surfaces in symplectic 4-manifolds with $b_+ = 1$. Crelle's Journal, to appear, arXiv:1407.1089 (with J. Dorfmeister and T.-J. Li)(8) On an exotic Lagrangian torus in $\mathbb{C}P^2$. Compositio Math. , 151 (2015), no. 07, pp 1372- 1394.(9) On the symplectic mapping class groups of small rational manifolds. Michigan Math. J., 64 (2015), no. 2, 319-333. (with J. Li and T.-J. Li)(10) Exact Lagrangians in An-surface singularities. Math. Ann., 359 (2014), no. 1-2, 153-168.(11) Spherical Lagrangians via ball packings and symplectic cutting. Selecta Math. (N.S.), 20 (2014), no. 1, 261-283.(with M.Borman and T.-J. Li)(12) Symplectomorphism groups of non-compact manifolds and space of Lagrangians. J. Symplectic Geom., to appear, arXiv:1305.7291 (with R. Hind, M. Pinsonnault)(13) Lagrangian spheres, symplectic surfaces and symplectic mapping class groups. Geometry & Topology 16 (2012), 1121-1169 (with T.-J. Li)	

- (14) Note on a theorem of Bangert.
Acta Math. Sin. (Engl. Ser.) 28 (2012), no. 1, 121-132. (with T.-J. Li)

Papers in Preparation/Unpublished work

- (1) Dehn twists along Lagrangian spherical space forms (with C.Y. Mak)
- (2) Finite symplectic symmetries and orbifold cohomology. (with L. Amorim, S.C. Lau)
- (3) Donaldson hypersurfaces in orbifold theory. (with G. Xu)
- (4) Detecting non-displaceable Lagrangians in toric degenerations, (unpublished)
available at <http://www.crm.umontreal.ca/~wuweiwei/>

INVITED PRESENTATIONS

Conference/Colloquium presentations/Lecture series

1. U of Ottawa, Workshop on immersed Lagrangian cobordisms 2018 Apr.
2. Master Lecture Series workshop on Prof. McDuff's works at TSIMF; 2017 Dec.
3. Boston University/Keio University Workshop 2017; 2017 Jun.
4. U of Warwick, Interactions of symplectic and algebraic geometry 2017 Aug.
5. U of Thomas, Special session of AMS meeting 2016 Oct.
6. Chinese U of HongKong, Lecture series.
On Fukaya categories and split generations 2016 Apr.
7. National U of Singapore, Department Colloquium 2016 Feb.
8. Dartmouth College, Department Colloquium 2016 Jan.
9. U of Georgia, Department Colloquium 2016 Jan.
10. Sichuan U, Workshop on Symplectic Geometry and Mathematical Physics 2015 Jun.
11. U of Georgia, 2015 Georgia Topology Conference 2015 Jun.
12. The Chinese University of Hong Kong, Workshop on Geometry 2015 Mar.
13. U of Michigan, FRG conference on symplectic birational geometry and its connection to algebraic geometry 2014 Oct.
14. IBS-CGP in POSTECH (2 one hour lectures) 2014 Feb.
15. U of Massachusetts, Amherst, Workshop on Group actions on smooth 4-manifolds 2013 Oct.
16. U of Minnesota, Workshop and Conference on the Topology and Invariants of Smooth 4-Manifolds 2013 Apr.
17. Sun Yat-Sen U, Department Colloquium 2013 Apr.
18. U of Miami, FRG Topology Workshop 2013 2013 Mar.
19. Mirror Symmetry special session, Spring AMS regional meeting 2012 Mar.
20. U of Georgia, Georgia Topology Conference 2011 2011 June
21. Sun Yat-Sen U, Department Colloquium 2010 Dec.

Invited Seminar Talks

22. Cornell U, Lie groups seminar 2017 Sept.
23. Columbia U, SGGTC 2017 Apr.
24. UIUC, Geometry seminar 2016 Sept.
25. U Georgia, Geometry seminar 2016 Aug.
26. IAS-Princeton, Symplectic seminar 2015 Oct.
27. Harvard U, Yau's seminar 2015 Oct.
28. U de Montréal, Mathematical Physics seminar 2015 Oct.
29. Boston U, Differential geometry seminar 2015 Oct.
30. U Minnesota, Differential/Symplectic geometry seminar 2015 Oct.
31. CIRGET seminar, (joint Montréal city geometry seminar) 2015 Feb.
32. U Minnesota, Differential/Symplectic geometry seminar 2014 Dec.
33. U Massachusetts, Differential geometry seminar 2014 Nov.
34. U Toronto, Geometry seminar 2014 Oct.

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| 35. U de Montreal, Symplectic seminar | 2014 Oct. |
| 36. U Chicago, Geometry seminar | 2014 Apr. |
| 37. U Miami, Special session, 2014 Miami FRG conference | 2014 Mar. |
| 38. U California, Irvine, Geometry seminar | 2014 Jan. |
| 39. U Southern California, DG seminar | 2013 Sept. |
| 40. U Notre Dame, Felix Klein seminar | 2013 Mar. |
| 41. U Minnesota, DG/SG seminar | 2013 Feb. |
| 42. Michigan State U, Geometry and Topology seminar | 2012 Feb. |
| 43. U Minnesota DG/SG seminar | 2013 Jan. |
| 44. Michigan State U, Geometry and Topology seminar | 2012 Sept. |
| 45. U Georgia, Geometry seminar | 2012 Mar. |
| 46. U Chicago, Geometry seminar | 2012 Mar. |
| 47. Kansas State U, Poster session of Mirror Symmetry 2011 | 2011 Nov. |
| 48. U Minnesota, DG/SG seminar | 2011 Oct. |

PROFESSIONAL
ACTIVITIES

Invited Conference Participation

- Dec 2017, Symplectic geometry and topology: in honor of Dusa McDuff (ICMS at Edinburgh);
- Nov 2015, Inaugural conference of the Simons Collaboration on Homological Mirror Symmetry (Upenn);
- Sept 2015, Geometry and topology of symplectic 4-manifolds (UMass);
- Sept 2015, Lalondefest: Conference on Topology, Geometry and Dynamics (Montreal);
- Jun 2014, Workshop on Moduli Spaces of Pseudo-holomorphic Curves II (Simons Center);
- Feb 2014, Workshop on Moduli Spaces of Pseudo-holomorphic Curves II (Simons Center);
- Mar 2013, FRG workshop on low-dimensional topology (Miami)

Grants and Awards

2017-2022 Simons Foundation: Collaboration Grant for Mathematicians
2013-2015 AMS-Simons travel grant.

Referee:

- Pacific Journal of Mathematics
- Geometry and Topology
- New World Mathematics Awards (Ph.D. Thesis)

TEACHING
EXPERIENCE

2017 Fall, Vertical Research Group in Mirror Symmetry, Instructor
2017 Fall, Calculus III, Instructor
2016 Fall, Calculus III, Instructor
2013 Fall, Calculus III, Lecturer
2012 Fall, Linear Algebra, Lecturer
2011 Spring, Math 2372, CSE Calculus II, TA Instructor
2011 Spring, Math 1031, College Algebra and Probability, TA Instructor
2010 Fall, Math 1271, Calculus I, TA Instructor
2010 Summer, Math 1142, Short Calculus, Lecturer
2010 Spring, Math 1272, Calculus II, TA Instructor
2009 Fall, Math 2263, Multivariable Calculus, TA Instructor
2007-09 Spring, Math 1031, College Algebra and Probability, TA Instructor
2006-07 Spring, Math Tutor

REFERENCES

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