Weiwei Wu

CONTACT INFORMATION	**Address:** Department of Mathematics University of Georgia Athens, Georgia 30606 USA	**Email** : mathwww@gmail.com **URL**: http://www.crm.umontreal.ca/∼wuweiwei **Phone**: 612-423-1827 **Citizenship**: China

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

(1) Dehn twists exact sequences through Lagrangian cobordism
   Submitted, arXiv:1509.08028 (with C.-Y. Mak)

(2) Gauged Floer homology and spectral invariants.
   Submitted, arXiv:1506.03349 (with G. Xu)

(3) Equivariant split generation and mirror symmetry of special isogenous tori.
   Submitted, arXiv:1501.06257.

(4) 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)

(5) On an exotic Lagrangian torus in $\mathbb{C}P^2$.
   Compositio Math. , 151 (2015), no. 07, pp 1372- 1394.

(6) 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)

(7) Exact Lagrangians in An-surface singularities.
   Math. Ann., 359 (2014), no. 1-2, 153-168.

(8) 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)

(9) Symplectormophism groups of non-compact manifolds and space of Lagrangians.
   J. Symplectic Geom., to appear, arXiv:1305.7291 (with R. Hind, M. Pinsonnault)

(10) Lagrangian spheres, symplectic surfaces and symplectic mapping class groups.
   Geometry & Topology 16 (2012), 1121-1169 (with T.-J. Li)

(11) 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Papers in Preparation/Unpublished work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) Seidel's exact sequence on general symplectic manifolds.

(2) Hamiltonian groups of Del Pezzo surfaces. (with M. Pinsonnault)

(3) Symplectic plane Cremona maps. (with W. Chen and T.-J. Li)

(4) Detecting non-displaceable Lagrangians in toric degenerations, (unpublished)
available at http://www.crm.umontreal.ca/∼wuweiwei/

Conference/Colloqium presentations/Lecture series

1. Chinese U of HongKong, Lecture series.
   On Fukaya categories and split generations   2016 Apr.
2. National U of Singapore, Department Colloqium   2016 Feb.
3. Dartmouth College, Department Colloqium   2016 Jan.
4. U of Georgia, Department Colloqium   2016 Jan.
5. Sichuan U, Workshop on Symplectic Geometry and Mathematical
   Physics   2015 Jun.
6. U of Georgia, 2015 Georgia Topology Conference   2015 Jun.
7. The Chinese University of Hong Kong, Workshop on Geometry   2015 Mar.
8. U of Michigan, FRG conference on symplectic birational geometry
   and its connection to algebraic geometry   2014 Oct.
9. IBS-CGP in POSTECH (2 one hour lectures)   2014 Feb.
10. U of Massachusetts, Amherst, Workshop on Group actions on smooth
    4-manifolds   2013 Oct.
11. U of Minnesota, Workshop and Conference on the Topology and
    Invariants of Smooth 4-Manifolds   2013 Apr.
12. Sun Yat-Sen U, Department Colloqium   2013 Apr.
13. U of Miami, FRG Topology Workshop 2013   2013 Mar.
14. Mirror Symmetry special session, Spring AMS regional meeting   2012 Mar.
15. U of Georgia, Georgia Topology Conference 2011   2011 June
16. Sun Yat-Sen U, Department Colloqium   2010 Dec.

Invited Seminar Talks

17. IAS-Princeton, Symplectic seminar   2015 Oct.
18. Harvard U, Yau's seminar   2015 Oct.
19. U de Montréal, Mathematical Physics seminar   2015 Oct.
20. Boston U, Differential geometry seminar   2015 Oct.
21. U Minnesota, Differential/Symplectic geometry seminar   2015 Oct.
22. CIRGET seminar, (joint Montréal city geometry seminar)   2015 Feb.
23. U Minnesota, Differential/Symplectic geometry seminar   2014 Dec.
24. U Massachusetts, Differential geometry seminar   2014 Nov.
25. U Toronto, Geometry seminar   2014 Oct.
26. U de Montreal, Symplectic seminar   2014 Oct.
27. U Chicago, Geometry seminar   2014 Apr.
28. U Miami, Special session, 2014 Miami FRG conference   2014 Mar.
29. U California, Irvine, Geometry seminar   2014 Jan.
30. U Southern California, DG seminar   2013 Sept.
31. U Notre Dame, Felix Klein seminar   2013 Mar.
32. U Minnesota, DG/SG seminar   2013 Feb.
33. Michigan State U, Geometry and Topology seminar   2012 Feb.
34. U Minnesota DG/SG seminar   2013 Jan.
35. Michigan State U, Geometry and Topology seminar   2012 Sept.
36. U Georgia, Geometry seminar   2012 Mar.
37. U Chicago, Geometry seminar   2012 Mar.
38. Kansas State U, Poster session of Mirror Symmetry 2011   2011 Nov.
39. U Minnesota, DG/SG seminar   2011 Oct.

PROFESSIONAL
ACTIVITIES

Invited Conference Participation

- Jul 2016, 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
2013-2015 AMS-Simons travel grant.

Professional Services
2012-present MR Reviewer

TEACHING
EXPERIENCE

Michigan State University
2013 Fall, Calculus III, Lecturer
2012 Fall, Linear Algebra, Lecturer

University of Minnesota
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

Mohammed Abouzaid
Columbia University, abouzaid@math.columbia.edu
Octav Cornea
Universite de Montréal, cornea@dms.umontreal.ca
Kenji Fukaya
Simons Center for Geometry and Physics, kfukaya@scgp.stonybrook.edu
Tian-Jun Li
University of Minnesota, tjli@math.umn.edu
Leonid Polterovich
Tel Aviv University, polterov@runbox.com
Ivan Smith
University of Cambridge, is200@cam.ac.uk