

Wei Wang
Curriculum Vitae

Work Address

College of Information Technology
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Personal

Born: 27 August 1983, Shanghai. Citizenship: P.R.China

**Research
Interests**

Algebraic Topology: *Characteristic classes, Bordism theory, Equivariant Bordism theory*

Geometric Topology : *Topology of High-Dimensional Manifolds, Geometric and Topological structures on Manifolds*

Education

East China Normal University
(Shanghai, P.R.China)

2001-2005

B.A. in mathematics
Date of graduation: June 2005

Academy of Mathematics and Systems Science
Chinese Academy of Sciences
(Beijing, P.R.China)

2005-2010

Ph.D in pure mathematics
Date of graduation: June 2010.
Thesis title: “On the Homology and Cohomology Properties of Some Loop Spaces and Symplectic Connected Sums”
Thesis advisor: Jianzhong Pan.

**Academic
Position**

Fudan University
(Shanghai, P.R.China)

2010-2012

Post-Doctor. (*9/2010 - 6/2012*)

Employment

Shanghai Ocean University
(Shanghai, P.R.China)

2012-present

Instructor. (*7/2012 - present*)

Doctoral Thesis.

“On the Homology and Cohomology Properties of Some Loop Spaces and Symplectic Connected Sums.”
(*AMSS, 2010*)

**Publications and
Preprints**

“On the bilinear and cubic forms of some symplectic connected sums.” *Acta Math. Sin. (Engl. Ser.)* **28** (2012), no. **9**, 1809-1822.

“Examples of quasitoric manifolds as special unitary manifolds,” with Zhi Lü. *Math. Res. Lett.* **23** (2016), no. **5**, 1453-1468

“On the equivalence of integral T^k -cohomology Chern numbers and T^k - K -theoretic Chern numbers.” *Chin. Ann. Math. Ser. B* **38** (2017), no. **6**, 1353-1364.

“Lickorish type construction of manifolds over simple polytope,” with Zhi Lü and Li Yu. To appear in *Algebraic Topology and Related Topics*, Trends Math., Springer, 2018.

“Equivariant cohomology Chern numbers determine equivariant unitary bordism for torus groups,” with Zhi Lü. To appear in *Algebraic & Geometric Topology*

“An explicit formula for a group structure on certain 6-manifolds”, revising.

Grants

NSFC No.11301335: “On Some Problems in the topology of High-dimensional Manifolds”, 2014-2016.

Selected presentations at conferences

- 24 January, 2014 - Toric Topology in Osaka, Osaka City University, Japan - “Equivariant ordinary Chern numbers and Equivariant K-theory Chern numbers”
- 11 August, 2014 - ICM 2014 Satellite Conference on Algebraic Topology, Dalian, P.R.China “Equivariant bordism and equivariant Chern numbers.”
- 24 August, 2015 - International Conference on Combinatorial and Toric Homotopy, NUS, Singapore - “Toric elements of some bordism groups.”
- 19 June, 2017 - Workshop on Algebraic and Geometric Topology, Nankai University, Tianjin, P.R.China - “High dimensional Montgomery-Yang correspondence.”

Teaching

- Fudan University 2010-2012
Recitation class of Linear Algebra II in 2010
- Shanghai Ocean University from 2012
Linear Algebra I-II, Calculus I-II, Abstract Algebra, Operational Research.