

Yifan Li | Curriculum Vitae

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Current Position

Postdoctoral research fellow in Center of Geometry and Physics, Institute for Basic Science (IBS), Pohang, South Korea

Education

- 08/2014-07/2019 DOCTOR OF PHILOSOPHY under the supervise of Prof. Li Si, in Yau Mathematical Sciences Center, Tsinghua University, China
02/2014-07/2014 Exchange study at Département de Mathématiques et Applications, École Normale Supérieure, France
08/2010-07/2014 BACHELOR OF SCIENCE at Department of Mathematical Science, Tsinghua University, China

Honors and Awards

- 08/2014-07/2017 S.-T. Yau Graduate Student Scholarship
07/2014 Bachelor with distinction
10/2013 Academic Outstanding Award
10/2012 Academic Outstanding Award
10/2011 National Scholarship
08/2010-07/2014 Member of Xuetang Program of Tsinghua University

Research Interest

Geometry and topology, mathematical physics. Specifically, non-commutative geometry and mirror symmetry, including Koszul duality theory, Landau-Ginzburg models, Frobenius manifolds, variation of semi-infinite Hodge structures, tt^* geometry, deformation quantization and cohomological field theory.

Publication and Preprints

- [1] with S. Li & W. He, G -twisted braces and orbifold Landau-Ginzburg Models, *Communications in Mathematical Physics* 373.1 (2020): 175-217.
[2] with S. Li & W. He, Deformation Theory of Orbifold LG B-models: A Case Study, *Pure and Applied Mathematics Quarterly* 14.3 (2018): 443-465.

Invited talks

- 11/25/2019 *A Survey for LG/LG Mirror Symmetry*, Seminars, IBS-CGP
- 10/09/2019 *Moduli Space of Quiver Representations* Seminars, Zhejiang University
- 11/07/2019 *Algebraic Approaches to Orbifold LG B-models*, Seminars, Huazhong University of Science and Technology
- 13/06/2019 *Algebraic Approaches to Orbifold Landau-Ginzburg B-models*, **ICCM2019**, Beijing, China
- 04/01/2019 *Algebraic approaches to LG B-models*, Seminars, Zhongshan University
- 24/11/2018 *Hochschild Cohomology of Curved Algebras and Orbifold Landau-Ginzburg B-models*, Program for the Mini-Workshop on Hochschild Cohomology and Related Topics III, East China Normal University
- 13/11/2018 *Hochschild cohomology of curved algebras and orbifold Landau-Ginzburg models*, Colloquium & Seminars, ShanghaiTech University
- 20/07/2018 *Mathematical aspects of Landau-Ginzburg models*, Poster Session, **String-Math 2018**, Tohoku University
- 15/01/2018 *Orbifold Landau-Ginzburg models*, East Asian Core Doctoral Forum on Mathematics 2018, Beijing, China
- 28/11/2017 *Orbifold Landau-Ginzburg models via algebraic methods*, Mathematical Physics Seminar, Sichuan University
- 09/11/2017 *Hochschild cohomology of curved algebras and orbifold Landau-Ginzburg models*, Symplectic Geometry and Mathematical Physics Seminar, Peking University

Seminars (Co)Organized

- 01/2018 East Asian Core Doctoral Forum on Mathematics 2018, Beijing, China
- 2015-2018 Student Seminar on Geometry and Physics, Tsinghua University

Teaching Experiences

- 2017-2018 Teaching assistant and grader, Calculus given by Prof. Li Tiecheng, Tsinghua University
- Fall 2016 Teaching assistant and grader, Topology given by Prof. Li Si, Tsinghua University
- Spring 2017 Teaching assistant and grader, Algebraic Topology given by Prof. Li Si, Tsinghua University
- Spring 2016 Teaching assistant and grader, Classical Mechanics by Prof. Lu Wenxuan, Tsinghua University
- Fall 2015 Teaching assistant and grader, Linear Algebra Given by Prof. Li Si, Tsinghua University
- 2014-2015 Teaching assistant and grader, Calculus given by Prof. Zhang Jiming, Tsinghua University
- Summer 2014 Teaching Assistant, Linear Algebra given by Prof. Bong Lian, Tsinghua Summer Mathcamp for High School Students