Curriculum Vitae

Chinese Academy of Sciences,
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I am currently a postdoc at Morningside Center of Mathematics. My research mentor is Baohua Fu. My research lies in algebraic geometry. I am interested in studying algebraic varieties by Hodge theory and algebraic cycles. My research work includes weak Torelli problem, Chow groups of cubic hypersurface and related hyper-Kähler variety, degeneration of Hodge structures. I received my PhD at University of Amsterdam, under the supervision of Mingmin Shen.

Experience

- Postdoc, Morningside Center of Mathematics, Academy of Mathematics and Systems Science, Chinese Academy of Science, 2020-2023. Mentor: Baohua Fu.
- Ph. D. Mathematics, University of Amsterdam, Oct 2020. Supervisor: Shen, Mingmin,
- M. A. Mathematics, Washington University in St. Louis, May 2016.
- B. S. Mathematics, Zhejiang University, July 2014.

Research Preprints

- *Degeneration to secant cubic hypersurfaces and limiting Hodge structure,* joint with Zhiwei Zheng, arXiv: 2206.12670, submitted.
- *Lines on secant cubic hypersurfaces of Severi variety,* arXiv: 2112.00335, submitted.
- *Universal generation of the cylinder homomorphism of cubic hypersurfaces,* arXiv: 1810.12394.
- *Remarks on automorphism and cohomology of finite cyclic coverings of projective spaces,* joint with Xuanyu Pan, Math. Res. Lett. vol. 28(2021), no. 3, 785-822.

Invited Talks

- *Degeneration of cubic hypersurfaces and limiting Hodge structure,* Shanghai Jiao Tong University, Aug 2022, online.
- *Degeneration of cubic hypersurfaces and limiting Hodge structure,* 3rd National Algebraic Geometry Conference, Fudan University, July 2022, online.
- *Lines on the secant cubic hypersurfaces of Severi varieties,* MCM Members Seminar, CAS, Nov 2021.
- *Cubic hypersurfaces: Chow groups, motives and rationality problems,* MCM Members Seminar, CAS, Dec 2021.

- *The automorphism and cohomology of cyclic coverings,* Séminaire Géométrie de l'ICJ, Université Claude Bernard Lyon 1, May 2019.
- *A result of algebraic cycles on cubic hypersurfaces,* Rationality of Algebraic Varieties, Schiermonnikoog Island, Apr 2019.
- *A result of algebraic cycles on cubic hypersurfaces,* Algebraic and Arithmetic Seminar, University of Amsterdam, Feb 2019.
- *A result of algebraic cycles on cubic hypersurfaces,* Forschungsseminar "Arithmetische Geometrie", Humboldt University, Jan 2019.
- *A result of algebraic cycles on cubic hypersurfaces,* Algebraic Geometry Seminar, Chinese Academy of Science, Dec 2018.
- *Chow rings of hyper-Kähler manifolds,* GAeL XXV, University of Bath, June 2017.

Honors and Awards

- S.-T. Yau College Student Mathematics Contest 2013,
  Geometry and Topology, Bronze Medal.

Seminar Talks

- *Characterization cubic hypersurfaces in projective geometry*, preprint seminar, MCM, Mar 2022.
- *Degeneration of Hodge structures*, preprint seminar, MCM, Nov 2021.
- *Lagrangian fibration on irreducible symplectic manifolds,* Lagrangian Fibration Seminar, MCM, Mar 2021.
- *Fano variety of lines on cubic fourfolds*, Reading Seminar on Cubic Hypersurfaces, MCM, Jan 2021.
- *Fqpc sites: descent theory,* Étale Cohomology Seminar, University of Amsterdam, Sep 2019.
- *Bounding the trace of monodromy representations,* Reading Seminar on Finiteness of Monodromy Representation, University of Amsterdam, Nov 2018.
- *Deligne-Mumford stacks,* Moduli Stacks Seminar, Utrecht, Oct 2017.
- *Isogenous of K3 surfaces are twisted derived equivalent,* Algebraic and Arithmetic Seminar, University of Amsterdam, Sep 2017.
- *Tate modules and fudamental groups of abelian varieties,* Abelian Varieties Seminar, Feb 2017.
- *Basics of abelian varieties,* Abelian Varieties Seminar, Oct 2016.

Seminar (co)Organized

- Lagrangian Filbration and Hyper-Kähler variety, MCM, Spring 2021.
- Seminar on Good Reduction of Abelian Varieties, University of Amsterdam, Fall 2016.

Teaching Experience

Teaching Assistants

- Differential Geometry, Fall 2019.
- Abelian Variety, Fall 2018.
- Algebra 2, Fall 2018.
- Topology, Spring 2018.
- Algebraic geometry 1, Fall 2017.
- Topology, Spring 2017.
- Representation Theory, Fall 2016.
- Introduction to Lebesgue Integration, Spring 2016.
- Complex Analysis II, Spring 2016.
- Complex Variables, Fall 2015.
- Geometry I, Fall 2015.
- Complex Analysis I, Fall 2015.