

Curriculum Vitae

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Education

- PhD in Mathematics, 08/2013-05/2020
Indiana University Bloomington.
Advisor: Valery Lunts.
- BSc in Mathematics, 08/2009-05/2013
Chinese University of Hong Kong.

Research Interests

- Algebraic Geometry- moduli space of sheaves, derived category, quiver representations

Publications and Preprints

1. *Moduli space of instanton sheaves on the Fano 3-fold V_4* , arxiv 1810.04739, submitted.
2. *Compactification of the moduli space of instanton sheaves on the Fano threefold V_5* , arxiv 1810.04737, submitted.
3. *Blow ups of \mathbf{P}^n as quiver moduli for exceptional collections*, arxiv 1804.09544.
4. (with Shizhuo Zhang) *Moduli of quiver representations for exceptional collections on surfaces*, arXiv:1803.06533, submitted.

Invited Talks and Mini-courses

- *Moduli space of quiver representations for exceptional collections on surfaces*, Algebra Seminar, Indiana University, Feb 2018.
- *Holomorphic line bundles and Jacobian*, Graduate Students Geometry Seminar, Indiana University, November 2017.
- *McKay correspondence as equivalence of derived categories*, Graduate Algebraic Geometry Seminar, Indiana University, November 2016.
- *Derived category in algebraic geometry*, Graduate Algebraic Geometry Seminar, Indiana University, October 2015.

Recent Conferences and Workshops

- Facets of Algebraic Geometry, UMich, 2019.
- AMS Fall Central Sectional Meeting, UW Madison, 2019.
- International Workshop on Derived Categories and Related Topics, SYSU China, 2019.
- Young Mathematicians Academic Forum - Sminaire Mathjeunes, UTSC China, 2019.
- Midwest Algebraic Geometry Graduate Conference, UIC, 2019.
- Workshop on Moduli Spaces of sheaves and Bridgeland Stability, UIC, 2018.
- Mini-Workshop on Stability Conditions and Homological Projective Duality, University of Michigan, 2018.

Awards and Grants

- Hazel King Thompson Fellowship, Indiana University, Spring 2019.
- Hazel King Thompson Fellowship, Indiana University, Summer 2018.
- Hazel King Thompson Fellowship, Indiana University, 2013-2014

Teaching

- Instructor of record for V119 Applied Brief Calculus, Fall 2019.
- Instructor of record for M118 Finite Math, Summer 2017.
- TA for M211 Calculus I, Fall 2014, Spring 2018.
- TA for M212 Calculus II, Fall 2015, Spring 2015, 2017.
- TA for M311 Multivariable Calculus, Spring 2016, Fall 2017, 2018.

Mentoring (REU)

- William Hargis, Fall 2016. Topic: Introduction to representation theory.