## Curriculum Vitae

### Xuqiang Qin

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#### Research Interests

• Algebraic Geometry-derived categories, stability conditions, Lagrangian fibrations, quiver representations.

## **Employment**

• University of North Carolina at Chapel Hill Postdoctoral Research Associate Mentor: Justin Sawon 08/2020 -08/2023

# Education

• PhD in Mathematics,

08/2013-07/2020

Indiana University Bloomington.

Advisor: Valery Lunts.

• BSc in Mathematics,

08/2009-05/2013

Chinese University of Hong Kong.

#### Publications and Preprints

- 1. Birational geometry of the Mukai systems of rank three and genus two, (joint with Justin Sawon), in preparation.
- 2. Bridgeland stability of minimal instanton bundles on Fano threefolds, arXiv:2105.14617
- 3. Compactification of the moduli space of minimal instantons on the Fano threefold  $V_4$ , European Journal of Mathematics, 7 (2021), 1502 1523.
- 4. Compactification of the moduli space of instanton sheaves on the Fano threefold  $V_5$ , Journal of Pure and Applied Algebra, DOI: 10.1016/j.jpaa.2020.106526
- 5. Moduli of quiver representations for exceptional collections on surfaces, (joint with Shizhuo Zhang), arXiv:1803.06533, submitted.
- 6. Blow ups of P<sup>n</sup> as quiver moduli for exceptional collections, arxiv: 1804.09544

#### **Invited Talks**

- Compactification of the moduli space of minimal instantons on the Fano threefold V<sub>4</sub>, Geometric Methods in Representation Theory Seminar, UNC Chapel Hill, 2021.
- Moduli space of instanton sheaves on the Fano 3-fold V<sub>4</sub>, Graduate Algebraic Geometry Seminar, Indiana University, Sep 2019.
- Moduli spaces 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.

### Recent Conferences and Workshops

- Derived Categories, Moduli Spaces, and Hyperkhler Varieties, UMich, 2022.
- Derived Categories and Moduli Spaces, Cornell Univesity, 2022.
- FRG Workshop on Stability, Moduli Spaces and Applications, UIC, 2019.
- I-70 Algebraic Geometry Symposium, WUSTL, 2019.
- 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.

#### **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 Record**

University of North Carolina at Chapel Hill

- MATH233 Calculus of Functions of Several Variables, Honors section, Spring 2022.
- MATH318 Discrete Mathematics, Spring 2022.
- MATH318 Discrete Mathematics, Fall 2021.
- MATH318 Discrete Mathematics, Spring 2021.
- MATH318 Discrete Mathematics, Honors section, Fall 2020.

### Indiana University:

- $\bullet\,$  V119 Applied Brief Calculus, Spring 2020.
- V119 Applied Brief Calculus, Fall 2019.
- M118 Finite Math, Summer 2017.

# Mentoring (REU)

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

Last update: Mar 2022.