

Xiaojiang Cheng

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Research Interests

Algebraic geometry and Hodge theory
Representation theory and automorphic forms

Education

Washington University in St. Louis <i>Ph.D in Mathematics; Advisor: Matt Kerr</i>	September 2018– Present <i>Saint Louis, MO, 63130</i>
University of Science and Technology of China <i>Advisor: Mao Sheng</i>	September 2015- June 2018 <i>Hefei, Anhui, China</i>
University of Science and Technology of China <i>B.A. in Mathematics</i>	September 2011-June-2015 <i>Hefei, Anhui, China</i>

Publications and Preprints

1. Hodge classes in the cohomology of local systems. preprint 2023.

Talks

Hodge classes in the cohomology of automorphic local systems, Algebraic Geometry Seminar at WashU - April 2021

Conferences Attended

Western Algebraic Geometry Symposium, November 4-5, 2023, St. Louis.
Arizona Winter School: Unlikely Intersections, March 4-8 2023, Tucson.
Algebraic Geometry and Algebraic K-Theory, May 23-25 2022, St. Louis.
MSRI Summer Graduate School: Commutative Algebra and its Interaction with Algebraic Geometry, June 3-14, 2019, University of Notre Dame.
Symposium on Hodge Theory, Arithmetic, and Moduli, May 13-17 2019, University of British Columbia, Canada.

Teaching

Instructor:

- Calculus III, SU22

Teaching Assistant:

- Calculus III, FL23 Instructors: Minh Nguyen, Blake Thornton, and Brett Wick

- Calculus II, FL21
Instructor: Karl Schaefer
- Calculus I, FL19
Instructor: Silas Johnson

Grader:

- Algebraic Geometry, SP22.
Instructor: Matt Kerr
- Measure Theory and Functional Analysis I and II, FL20-SP21.
Instructor: Francesco Di Plinio
- Algebra I and II, FL20-SP21.
Instructor: Matt Kerr
- Introduction to Lebesgue Integration, SP20.
Instructor: Francesco Di Plinio.

Last updated: November 2023