Xiaojiang Cheng

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Research Interests

Algebraic geometry and Hodge theory
Representation theory and automorphic forms

Education

Washington University in St. Louis — September 2018– Present
Ph.D in Mathematics (expected May 2024); Advisor: Matt Kerr — *Saint Louis, MO, 63130*

University of Science and Technology of China — September 2015- June 2018
Advisor: Mao Sheng — *Hefei, Anhui, China*

University of Science and Technology of China — September 2011-June-2015
B.A. in Mathematics — *Hefei, Anhui, China*

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, SU21

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