YUWEI ZHU

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EDUCATION

Brown University 布朗大学   *2015.9 - 2019.6*
Ph.D. in Mathematics 数学博士   Advisor: Prof. Brendan Hassett
Department of Mathematics

Rice University 莱斯大学   *2013.8 - 2015.5*
M.A. in Mathematics 数学硕士   Advisor: Prof. Brendan Hassett
Department of Mathematics

Hong Kong University of Science and Technology 香港科技大学   *2009.8 - 2013.5*
B.Sc. in Mathematics 数学学士
Department of Mathematics

Xiamen Double Ten Middle School 厦门双十中学   *2006.8 - 2009.6*
获得2008年全国高中联赛（福建赛区）数学一等奖

PAPERS AND PREPRINTS

1. *Hodge Structure of K3 Type with Real Multiplication and Simple Abelian Fourfolds with Definite Quaternionic Multiplication*, 2019, available on arXiv: 1906.10157

2. *Construction of a CM Mumford Fourfold from Shioda's fourfold*, 2018, available on arXiv: 1810.10058

3. *K3 surfaces associated to Abelian Fourfolds of Mumford's Type*, 2018, available on arXiv: 1812:06882

TALKS AND POSTERS

1. JMM Meeting Number Theory, Arithmetic Geometry and Computation Panel Talk, *Shioda's Fourfold and CM Mumford's Fourfold* January 2019, Baltimore, Maryland

2. Poster session: *Shioda's Fourfold and CM Mumford's Fourfold* (2018, AGNES)

3. Graduate student seminar: *Quaternions: Matrices with a twist* (2018, Brown University)

4. Algebraic Geometry Seminar: *K3 surfaces arising from Mumford's construction* (2018, Brown University)

5. Poster session: *Families of K3 surfaces associated to Mumford's abelian fourfolds* (2017, AGNES)

6. Graduate student seminar: *Lattices and their invariants* (2017, Brown University)

7. Graduate student seminar: *What the Hecke: Intro to modular forms* (2016, Brown University)

8. Graduate student seminar: *Finite and Infinite reflection groups* (2015, Brown University)

CONFERENCES

1. Arithmetic of Low-Dimensional Abelian Varieties, June 2019, ICERM at Brown University

2. Algebraic Geometry Northeastern Series (AGNES), Spring 2019, UMass Amherst

3. Simons Collaboration on Arithmetic Geometry, Number Theory and Computation Annual Meeting, January 2019, New York

4. Algebraic Geometry Northeastern Series (AGNES), Fall 2018, Brown University

5. Arithmetic Geometry, Number Theory and Computation, Summer 2018, MIT

6. From Algebraic Geometry to Vision and AI: A Symposium Celebrating the Mathematical Work of David Mumford, Summer 2018, Harvard

7. Birational Geometry and Arithmetics, Spring 2018, ICERM at Brown University

8. Bi-annual Algebraic and Tropical Mettings of Brown and YaLe (BATMOBYLE), Spring 2018, MIT

9. Algebraic Geometry Northeastern Series (AGNES), Fall 2017, Northeastern University

10. Hodge Theory, Moduli and Representation Theory, Summer 2017, SUNY

11. Algebraic Geometry Northeastern Series (AGNES), Spring 2017, SUNY

12. Algebraic Geometry Northeastern Series (AGNES), Fall 2016, UMass Amherst

13. Cycles on Moduli Spaces, Geometric Invariant Theory, and Dynamics, Summer 2016, ICERM at Brown University

14. Biannual BC-NeU Algebraic Geometry Conference, Spring 2016, Boston College

15. Algebraic Geometry Northeastern Series (AGNES), Spring 2016, Yale University

16. Bi-annual Algebraic and Tropical Mettings of Brown and YaLe (BATMOBYLE), Fall 2015, Yale University

17. Explicit Methods for Modularity of K3 Surfaces and Other Higher Weight Motives, Fall 2015, ICERM at Brown University

18. Algebraic Geometry Northeastern Series (AGNES), Fall 2015, Brown University

19. Texas Algebraic Geometry Symposium, Spring 2015, Texas A & M University

TEACHING EXPERIENCE

MATH0520 Linear Algebra Instructor *2019 Spring*
Course Head: Sergei Treil Brown University
Course material:

https://sites.google.com/a/brown.edu/math-0520-spring-2019-outline-and-homework-tuth/

MATH0190 Advanced Placement Calculus (Physics/Engineering) Instructor *2017 Fall*
Course Head: Allen Wu Brown University
Course material: techniques in integration, sequences and series, Taylor expansion, Fourier expansion, elementary ordinary differential equation

MATH0100 Calculus II Instructor *2017 Spring*
Course Head: Dan Katz Brown University
Course material: techniques in integration, sequences and series, Taylor expansion, elementary ordinary differential equation

TA experience: in Rice University I also served as Teaching Assistant of Calculus I, Calculus II, Multivariable Calculus and Ordinary Differential Equations.

SKILLS

Coding	Language
Latex	English (proficient)
Magma	Chinese (mother language)
Elementary C++	Japanese (proficient)
Python	German (adept)
	French (beginner)

REFEREE INFORMATION

Prof. Brendan Hassett	**Prof. John Voight**	**Prof. Dan Katz**
Department of Mathematics	Department of Mathematics	Department of Mathematics
Brown University	Dartmouth College	Brown University
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