

Qixian Zhao

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Work

Postdoctoral Fellow

Yau Mathematical Sciences Center, Tsinghua University

Fall 2023 - Present

Advisor: Peng Shan

Education

Ph.D. Mathematics

University of Utah

2018 – 2023

Advisor: Dragan Miličić

M.A. Mathematics

University of Wisconsin-Madison

2016 – 2018

Concurrent Enrollment

University of California, Berkeley

Spring 2015

B.S. Mathematics and Applied Mathematics

Sun Yat-sen University

2013 – 2017

Awards, Honors and Grants

Outstanding Thesis Award

University of Utah

April 2023

Departmental Summer Research Fellowship

University of Utah

2022

Exchange & Visiting International Student Academic Excellence Award

University of Wisconsin-Madison

2017

Outstanding Graduation Thesis

Sun Yat-sen University

2017

Publications and Preprints

- [1] Qixian Zhao. “Kazhdan-Lusztig Algorithm for Whittaker Modules With Arbitrary Infinitesimal Characters”. Thesis (Ph.D.)—The University of Utah. PhD thesis. 2023, p. 106. ISBN: 979-8380-12644-1.
- [2] Qixian Zhao. “Kazhdan-Lusztig Algorithm for Whittaker Modules with Arbitrary Infinitesimal Characters”. In: *Algebras and Representation Theory* (2023). ISSN: 1572-9079.

Seminar Talks

Non-integral Kazhdan-Lusztig algorithm and an application to Whittaker modules

Inter-University Centre, Dubrovnik, Croatia

June, 2023

Representation theory XVIII

The non-integral Kazhdan-Lusztig problem for Whittaker modules

University of Utah

Jan, 2023

Representation Theory / Number Theory Seminar

Reducibility of Standard Representations

University of Melbourne
Representation theory seminar

April and May, 2022

Fundamental Solutions and D -modules

University of Utah
Graduate Student Colloquium

Fall 2019

Ubiquity of Littlewood-Richardson Coefficients

University of Utah
Graduate Student Colloquium

Spring 2019

Conferences and Workshops

Representation theory XVIII

Inter-University Centre, Dubrovnik, Croatia
Speaker

June 2023

Lie Groups Days (in honor of D. Vogan)

Massachusetts Institute of Technology
Participant

September 2022

Quantized symplectic singularities and applications to Lie theory

Massachusetts Institute of Technology
Participant

June 2022

On the crossroads of algebra, geometry and physics - Dedicated to A. Goncharov

Yale University
Participant

March 2022

Teaching

Graduate Student Instructor at University of Utah.....

- **Math 1210: Calculus I (Instructor)** Spring 2023
- **Math 2270: Linear Algebra (Instructor)** Summer 2021
- **Math 1050: College Algebra (Instructor)** Fall 2019 - Fall 2022
- **Math 1320: Engineering Calculus II (TA)** Spring 2019
- **Math 2250: Differential Equations and Linear Algebra (TA)** Fall 2018

Outreach, Service, and Research Experience

Graduate Student Mentor

University of Utah
Directed Reading Program in Mathematics

Spring 2021

Commitee

University of Utah
GSAC Mentoring Program

Fall 2020 – Spring 2021

Co-organizer

University of Utah
Directed Reading Program in Mathematics

Fall 2019 – Spring 2021

Co-organizer

University of Utah
Representation Theory Student Seminar

2019 – Spring 2023

Graduate Student Mentor

University of Wisconsin-Madison
Directed Reading Program

Spring 2018

Collaborative Undergraduate Research Lab

University of Wisconsin-Madison
Advisor: Steven V Sam

Spring 2017

Volunteered Lecturer

Youth League of Department of Mathematics, Sun Yat-sen University

Aug 2014

Volunteered lecturing at Shifen Primary School in Shifen, Beiling Town, Longchuan County, Heyuan, Guangdong Province, China

Member

Youth League of Department of Mathematics, Sun Yat-sen University

2013 – 2014