Jieru Zhu

211 Mathematics Building
University at Buffalo
Buffalo, NY 14260-2900
jieruzhu@buffalo.edu
http://www.buffalo.edu/cas/math/people/faculty/zhu.html

RESEARCH INTERESTS	Representations of Lie algebras and superalgebras, centralizer algebras, diagrammatic algebras, Schur-Weyl duality, categorification.

POSITIONS

University at Buffalo — 2018 - current
Visiting Assistant Professor
Mentor: Yiqiang Li

EDUCATION

University of Oklahoma — 2011 - 2018
PhD Thesis: Two Boundary Centralizer Algebras for $\mathfrak{q}(n)$.
Advisor: Jonathan Kujawa.

Tongji University Shanghai, China. — 2011
BSc, thesis advisor: Jiachen Ye.

PUBLICATIONS

[2] Two Boundary Centralizer Algebras for $\mathfrak{q}(n)$. *submitted.* PhD Thesis. arXiv version.

[1] Two Boundary Centralizer Algebras for $\mathfrak{gl}(n|m)$. arXiv:1809.08172

AWARDS

MSRI summer school travel award (Derived categories)	Jul 2018
Bullard dissertation completion award	Spring 2018
Association for Women in Math (AWM) travel fund	Jan 2018, Apr 2019
AMS travel fund	Fall 2014

COLLABORATION WORKSHOPS

Summer Collaborators program at the Institute for Advanced Study (IAS). Princeton, NJ	Summer 2019
Women in Noncommutative Algebra and Representation Theory Workshop (WINART 2). Leeds, UK	May 2019

INVITED CONFERENCE TALKS	Association for Women in Mathematics (AWM) Symposium, Special session on homological methods in noncommutative algebra and representation theory. Houston, TX.	Apr 2019
	AMS special session on geometric methods in representation theory. Auburn AL.	Mar 2019
	AMS special session on representations of Lie algebras, algebraic groups, and quantum groups. Auburn AL.	Mar 2019
	AMS special session on combinatorial and categorical aspects of representation theory. San Francisco, CA.	Oct 2018
	Interactions of low-dimensional topology and "higher" representation theory. Zürich, Switzerland.	Sep 2018
	AMS special session on categorical methods in representation theory. Orlando, FL.	Sep 2017
	AMS special session on combinatorics and representation theory of reflection groups: real and complex. Denton, TX.	Sep 2017
INVITED SEMINAR TALKS	University of Colorado at Boulder algebra seminar	April 2018
	University at Buffalo algebra seminar	Feb 2018
	University of Bonn algebra seminar	Feb 2017
	University at Buffalo algebra seminar	Oct 2016
CONTRIBUTED TALKS	Women in Noncommutative Algebra and Representation Theory Workshop (WINART 2) end-of-workshop short presentation, Leeds, UK	May 2019
	Southeastern Lie theory workshop X parellel session. Athens, GA.	June 2018
	Speed TORA (Texas-Oklahoma Representation theory and Automorphic forms) session. Norman, OK.	April 2018
	Joint Mathematics Meetings, contributed paper session. San Diego, CA.	Jan 2018
	Hausdorff Research Institute for Mathematics winter school: categorification, representation theory and symplectic geometry, short talk and poster. Bonn, Germany.	Nov 2017
	Joint Mathematics Meetings, contributed paper session. Atlanta, GA.	Jan 2017
	Workshop and international conference on representations of algebras (ICRA) parellel session. Syracuse, NY.	Aug 2016

	Algebraic groups, quantum groups and geometry, southeast Lie theory series, parellel session. Charlottesville, VA.	May 2016
	Speed TORA session and poster. Denton, TX.	Mar 2016

TEACHING

University at Buffalo

Introduction to Linear Algebra*	Spring 2019
Multivariable Calculus	Fall 2018

University of Oklahoma

Calculus III	Summer 2017
Calculus II	Spring, Summer 2016
Trigonometry	Fall 2014
College algebra	Spring 2014
Precalculus	Spring, Summer 2013

* has coding material using Python.
** I was the sole instructor of record for all courses.

MATH EDUCATION TRAINING

OU Center for Teaching Excellence Workshop Attendee of workshop sessions.	Spring 2018
Endorsement in Preparation for Teaching Undergraduate Mathematics, OU department certificate Completed six credit hours math education coursework.	Fall 2017

MENTORING

Graduate mentoring

Geometric Representation Theory Research Group Co-mentoring PhD students of Yiqiang Li at University at Buffalo.	Fall 2018

Undergraduate mentoring

Joshua McDermett Directed Reading Program with undergraduate math majors at University of Oklahoma.	Spring 2016

ORGANIZING

Texas-Oklahoma Representations and Automorphic Forms Student Conference (TORAS), co-organizer	Mar 2015
OU Student Algebra Seminar, organizer	Fall 2014 - Spring 2015

LOCAL **TALKS**	*University at Buffalo* "Introduction to Gradescope"	May 2019
	University of Oklahoma	
	Algebra and Representation Theory Seminar	Mar 2017
	Graduate Student Seminar	Nov 2016
	Student Algebra Seminar	Sep 2016
	Research in Undergraduate Mathematics Education (RUME) Seminar	Feb, Sep 2016
	Student Algebra Seminar	Mar, Apr, Nov 2015
	Algebra and Representation Theory Seminar	Nov 2014
	Student Algebra Seminar	Jan, Feb, May, Aug 2014
	Student Algebra Seminar	Oct 2013

JOURNAL **REVIEWER**	Proceedings of AMS Journal of Algebra