

EDUCATION	University of California, Santa Barbara Ph.D. in Mathematics (pursuing)	September 2019 - present
	University of Oklahoma M.A. in Mathematics	August 2014 - May 2017
	University of California, Davis B.S. in Mathematics	September 2010 - June 2014
PAPERS	2. "Skein Theory of Affine ADE Subfactor Planar Algebras" (in preparation) 1. "A Determinant Formula of the Jones Polynomial for a Family of Braids" with D. Asaner, S. Kumar, A. Pease, and A. Poudel (in preparation)	
RESEARCH INTERESTS	Quantum algebra, low-dimensional topology, operator algebras, tensor categories, diagrammatic algebras, subfactors, structure and classification of C^* -algebras, knot theory, quantum groups	
CURRENT RESEARCH PROJECT	"Nuclear Dimension of Crossed Products by Hilbert Bimodules over Commutative C^* -algebras", Project leaders: Marzieh Forough and Karen Strung, Members: Ja A Jeong, Preeti Luthra, Melody Molander, and Zahra Hasanpour-Yakhdani	
AWARDS	National Science Foundation Travel Grant (\$1350)	2023
	Operator Algebra Mentor Network Grant (\$500)	2023
	Decolvenaere Research Accelerator Award, UCSB Graduate Division (\$8000)	2023
	Individualized Professional Skills (IPS) Grant, UC Santa Barbara (\$1000)	2023
	Math Department Graduate Fellowship, University of Oklahoma (\$3000)	2015
	Richard V. Andree Memorial Scholarship, University of Oklahoma (\$2000)	2015
	Yueh-Jing Lin Fund, UC Davis (\$2500)	2013
TALKS	14. "Skein Theory for Index 4 Subfactor Planar Algebras" Southeastern Lie Theory Workshop: Quantum Structures in Lie Theory, University of Virginia	March 2024
	13. "Using Diagrams to Describe Quantum Symmetries of Subfactors" Women in Mathematics in Southern California Symposium, Pomona College	February 2024
	12. "Skein Theory of Index 4 Subfactor Planar Algebras" Joint Mathematics Meetings, "Knots, Skein Modules, and Categorification" Special Session, Moscone Center	January 2024
	11. "Skein Theory for Affine ADE Subfactor Planar Algebras" Claremont Topology Seminar, Claremont McKenna College	November 2023
	10. "Skein Theory for Affine ADE Subfactor Planar Algebras" Twinned Conference on C^* -Algebras and Tensor Categories, Fields Institute (in person) and ICMS (streamed live)	November 2023
	9. "Skein Theory of Subfactor Planar Algebras" Young Mathematicians in C^* -Algebras, KU Leuven	August 2023
	8. "Skein Theory for Index 4 Subfactor Planar Algebras"	May 2023

Great Plains Operator Theory Symposium, The Ohio State University

7. "Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4" May 2023

AMS Spring Western Sectional, "Algebraic Structures in Knot Theory" Session, Fresno State University

6. "Skein Theory for Affine ADE Subfactor Planar Algebras" May 2023

Moab Topology Conference, Utah State University - Moab

5. "Skein Theory of Affine Type A Subfactor Planar Algebras" March 2023

Redbud Topology Conference, University of Oklahoma

4. "Diagrammatic Presentations of Index 4 Planar Algebras" March 2023

Underrepresented Students in Topology and Algebra Symposium, University of Washington

3. "Skein Theory for Affine ADE Subfactor Planar Algebras" March 2023

Quantum Groups Seminar (Zoom), Université de Lille & University of Oslo

2. "Diagrammatic Presentations of Index 4 Subfactor Planar Algebras" December 2022

Tech Topology Conference, Georgia Institute of Technology

1. "Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4" July 2022

Topology Students Workshop, Georgia Institute of Technology

POSTERS

3. "Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4" June 2022

BRIDGES Conference, Poster Session, University of Utah

2. "Comparing Voting Systems Using Kemeny Rankings" April 2014

Undergraduate Research Conference, Student Poster Session, UC Davis

1. "Comparing Voting Systems Using Kemeny Rankings" February 2014

MAA Golden Section Meeting, Student Poster Session, Sonoma State University

TEACHING

Lead TA - UC Santa Barbara Fall 2022 - Spring 2023

Provided professional development and TA training to new math department TAs

Teaching Assistant - UC Santa Barbara Fall 2019 - present

MATH 108AB - Introduction to Linear Algebra

MATH 8 - Transition to Higher Mathematics

MATH 6A - Vector Calculus I

MATH 6B - Vector Calculus II

MATH 34B - Calculus for Social and Life Sciences

Associate Instructor - UC Santa Barbara Summer 2020 & 2021

MATH 6A - Vector Calculus I

MATH 4A - Linear Algebra with Applications

Adjunct Mathematics Professor - Cosumnes River College Spring 2018 - Spring 2019

MATH 30 - Pre-Algebra

STAT 300 - Introduction to Statistics and Probability
MATH 20 - Arithmetic

Teaching Assistant - University of Oklahoma

Fall 2015 - Spring 2017

MATH 1743 - Business Calculus I
MATH 1914 - Calculus 1 (Fast Track)
MATH 2924 - Calculus 2 (Fast Track)
MATH 1823 - Calculus 1

Instructor of Record - University of Oklahoma

Fall 2014 - Summer 2015 & 2016

MATH 1823 - Calculus 1
MATH 1503 - College Algebra

WORKSHOPS

Quantum Invariants and Low-dimensional Topology

August 2023

American Institute of Mathematics (AIM)

Women in Operator Algebras 3

June 2023

Banff International Research Station (BIRS)

MENTORSHIP

UCSB Directed Reading Program Mentor

December 2019 - June 2023

REU Graduate Mentor, UCSB

June 2022 - August 2022

Women in STEM Mentor, UCSB

September 2019 - June 2022

SERVICE

AWM Student Chapter at UCSB, Secretary

June 2023-present

Directed Reading Program at UCSB Co-Organizer

December 2020 - July 2023

Graduate Quantum Algebra and Topology Seminar Co-Organizer, UCSB

July 2023 - January 2024

AWM Chapter at UCSB Founder and President

August 2022 - June 2023

Quantum Algebra and Topology Seminar Co-Organizer, UCSB

September 2021 - June 2022

ORGANIZATIONS

Operator Algebra Mentor Network - Mentee

February 2023 - present