

<b>EDUCATION</b>	University of California, Santa Barbara <b>Ph.D. in Mathematics (pursuing)</b>	September 2019 - present
	University of Oklahoma <b>M.A. in Mathematics</b>	August 2014 - May 2017
	University of California, Davis <b>B.S. in Mathematics</b>	September 2010 - June 2014
<b>PAPERS</b>	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)	
<b>RESEARCH INTERESTS</b>	Quantum algebra, low-dimensional topology, operator algebras, tensor categories, diagrammatic algebras, subfactors, structure and classification of $C^*$ -algebras and their relations to dynamical systems, knot theory, quantum groups	
<b>CURRENT RESEARCH PROJECTS</b>	"Nuclear Dimension of Crossed Products by Hilbert Bimodules over Commutative $C^*$ -algebras", with M. Forough, Z. Hassanpour-Yakhdani, J. Jeong, P. Luthra, and K. Strung "Diagrammatics for Dihedral Pointed Fusion Categories", with A. Czenky	
<b>AWARDS</b>	<b>National Science Foundation Travel Grant (\$2300)</b>	2024
	<b>National Science Foundation Travel Grant (\$1000)</b>	2024
	<b>GSA Conference Travel Grant, UC Santa Barbara (\$500)</b>	2024
	<b>USTARS Distinguished Graduate Student Speaker in Topology (\$200)</b>	2024
	<b>National Science Foundation Travel Grant (\$1350)</b>	2023
	<b>Operator Algebra Mentor Network Grant (\$500)</b>	2023
	<b>Decolvenaere Research Accelerator Award, UCSB Graduate Division (\$8000)</b>	2023
	<b>Individualized Professional Skills (IPS) Grant, UC Santa Barbara (\$1000)</b>	2023
	<b>Math Department Graduate Fellowship, University of Oklahoma (\$3000)</b>	2015
	<b>Richard V. Andree Memorial Scholarship, University of Oklahoma (\$2000)</b>	2015
	<b>Yueh-Jing Lin Fund, UC Davis (\$2500)</b>	2013
<b>TALKS</b>	*18. "Nuclear Dimension of Cuntz-Pimsner Algebras of $C^*$ -Correspondences"	May 2024
* = INVITED	Classification of $C^*$ -Algebras and Dynamics Seminar, Oberwolfach Research Institute for Mathematics, Oberwolfach, Germany	
	17. "Skein Theory of Subfactor Planar Algebras"	May 2024
	Skew Braces, Braids, and the Yang-Baxter Equation Workshop, Banff International Research Station, Banff, Canada	
	*16. "Using Diagrams to Describe Quantum Symmetries of Subfactors"	April 2024
	Distinguished Graduate Student in Topology Speaker at the USTARS Conference, University of Iowa	
	15. "Skein Theory for Index 4 Subfactor Planar Algebras"	April 2024

Graduate Student Topology and Geometry Conference, Michigan State University	
14. <i>"Skein Theory for Index 4 Subfactor Planar Algebras"</i>	March 2024
Southeastern Lie Theory Workshop: Quantum Structures in Lie Theory, University of Virginia	
13. <i>"Using Diagrams to Describe Quantum Symmetries of Subfactors"</i>	February 2024
Women in Mathematics in Southern California Symposium, Pomona College	
*12. <i>"Skein Theory of Index 4 Subfactor Planar Algebras"</i>	January 2024
Joint Mathematics Meetings, "Knots, Skein Modules, and Categorification" Special Session, Moscone Center	
*11. <i>"Skein Theory for Affine ADE Subfactor Planar Algebras"</i>	November 2023
Claremont Topology Seminar, Claremont McKenna College	
*10. <i>"Skein Theory for Affine ADE Subfactor Planar Algebras"</i>	November 2023
Twinned Conference on C*-Algebras and Tensor Categories, Fields Institute (in person) and ICMS (streamed live)	
9. <i>"Skein Theory of Subfactor Planar Algebras"</i>	August 2023
Young Mathematicians in C*-Algebras, KU Leuven	
8. <i>"Skein Theory for Index 4 Subfactor Planar Algebras"</i>	May 2023
Great Plains Operator Theory Symposium, The Ohio State University	
7. <i>"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"</i>	May 2023
AMS Spring Western Sectional, "Algebraic Structures in Knot Theory" Session, Fresno State University	
6. <i>"Skein Theory for Affine ADE Subfactor Planar Algebras"</i>	May 2023
Moab Topology Conference, Utah State University - Moab	
5. <i>"Skein Theory of Affine Type A Subfactor Planar Algebras"</i>	March 2023
Redbud Topology Conference, University of Oklahoma	
4. <i>"Diagrammatic Presentations of Index 4 Planar Algebras"</i>	March 2023
Underrepresented Students in Topology and Algebra Symposium, University of Washington	
*3. <i>"Skein Theory for Affine ADE Subfactor Planar Algebras"</i>	March 2023
Quantum Groups Seminar (Zoom), Université de Lille & University of Oslo	
2. <i>"Diagrammatic Presentations of Index 4 Subfactor Planar Algebras"</i>	December 2022
Tech Topology Conference, Georgia Institute of Technology	
1. <i>"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"</i>	July 2022
Topology Students Workshop, Georgia Institute of Technology	

## POSTERS

4. <i>"A Determinant Formula of the Jones Polynomial for a Family of Braids"</i>	April 2024
Graduate Student Topology and Geometry Conference, Michigan State University	
3. <i>"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"</i>	June 2022
BRIDGES Conference, Poster Session, University of Utah	
2. <i>"Comparing Voting Systems Using Kemeny Rankings"</i>	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 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, & 2024

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

### Classification of $C^*$ -Algebras and Dynamics Seminar

May 2024

Oberwolfach Research Institute for Mathematics (MFO)

### Skew Braces, Braids, and the Yang-Baxter Equation Workshop

May 2024

Banff International Research Station (BIRS)

### 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

	<b>Women in STEM Mentor, UCSB</b>	September 2019 - June 2022
<b>SERVICE</b>	<b>USTARS 2025 Conference Organizer</b>	May 2024 - present
	<b>AWM Student Chapter at UCSB, Secretary</b>	June 2023 - present
	<b>Directed Reading Program at UCSB Co-Organizer</b>	December 2020 - July 2023
	<b>Graduate Quantum Algebra and Topology Seminar Co-Organizer, UCSB</b>	July 2023 - January 2024
	<b>AWM Chapter at UCSB Founder and President</b>	August 2022 - June 2023
	<b>Quantum Algebra and Topology Seminar Co-Organizer, UCSB</b>	September 2021 - June 2022
<b>ORGANIZATIONS</b>	Operator Algebra Mentor Network - Mentee	February 2023 - present