

EDUCATION	<p>University of California, Santa Barbara Ph.D. in Mathematics (pursuing)</p> <p>University of Oklahoma M.A. in Mathematics</p> <p>University of California, Davis B.S. in Mathematics</p>	<p>Fall 2019 - Spring 2025 (expected)</p> <p>Fall 2014 - Spring 2017</p> <p>Fall 2010 - Spring 2014</p>
PAPERS	<p>2. "Skein Theory of Affine ADE Subfactor Planar Algebras" with S. Bigelow (in preparation)</p> <p>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)</p>	
RESEARCH INTERESTS	<p>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</p>	
CURRENT RESEARCH PROJECTS	<ul style="list-style-type: none"> · "Nuclear Dimension of Crossed Products by Hilbert Bimodules over Commutative C^*-algebras", with M. Forough, Z. Hassanpour-Yakhdani, J.A. Jeong, P. Luthra, and K. Strung · "A Skein Theory for Nichols Hopf Algebras", with A. Bisnath, and Q. Kolt · "Diagrammatics for Dihedral Pointed Fusion Categories", with A. Czenky 	
AWARDS	<p>National Science Foundation Travel Grant (\$2300)</p> <p>National Science Foundation Travel Grant (\$1000)</p> <p>GSA Conference Travel Grant, UC Santa Barbara (\$500)</p> <p>USTARS Distinguished Graduate Student Speaker in Topology (\$200)</p> <p>National Science Foundation Travel Grant (\$1350)</p> <p>Operator Algebra Mentor Network Grant (\$500)</p> <p>Decolvenaere Research Accelerator Award, UCSB Graduate Division (\$8000)</p> <p>Individualized Professional Skills (IPS) Grant, UC Santa Barbara (\$1000)</p> <p>Math Department Graduate Fellowship, University of Oklahoma (\$3000)</p> <p>Richard V. Andree Memorial Scholarship, University of Oklahoma (\$2000)</p> <p>Yueh-Jing Lin Fund, UC Davis (\$2500)</p>	<p>2024</p> <p>2024</p> <p>2024</p> <p>2024</p> <p>2023</p> <p>2023</p> <p>2023</p> <p>2023</p> <p>2015</p> <p>2015</p> <p>2013</p>
TALKS *= INVITED	<p>*20. AMS Western Sectional Meeting; Graphical Calculus in Representation Theory and Low-Dimensional Topology Special Session; University of California, Riverside; Riverside, California <i>TBD</i></p> <p>*19. Young Mathematicians in C^* Algebras; University of Glasgow; Glasgow, Scotland <i>"Using Diagrams to Describe Quantum Symmetries of Subfactors"</i></p> <p>*18. Oberwolfach Seminar; Classification of C^*-Algebras and Dynamics Seminar; Oberwolfach Research Institute for Mathematics; Oberwolfach, Germany <i>"Nuclear Dimension of Cuntz-Pimsner Algebras of C^*-Correspondences"</i></p> <p>17. Banff International Research Station Workshop; Skew Braces, Braids, and the Yang-Baxter Equation; Banff International Research Station; Banff, Canada <i>"Skein Theory of Subfactor Planar Algebras"</i></p>	<p>October 2024</p> <p>August 2024</p> <p>May 2024</p> <p>May 2024</p>

- *16. **USTARS Distinguished Graduate Student in Topology Speaker;** April 2024
Underrepresented Students in Topology and Algebra Research Symposium;
University of Iowa; Iowa City, Iowa
"Using Diagrams to Describe Quantum Symmetries of Subfactors"
15. **Graduate Student Topology and Geometry Conference;** Michigan State April 2024
University; East Lansing, Michigan
"Skein Theory for Index 4 Subfactor Planar Algebras"
14. **Southeastern Lie Theory Workshop;** Quantum Structures in Lie Theory; March 2024
University of Virginia; Charlottesville, Virginia
"Skein Theory for Index 4 Subfactor Planar Algebras"
13. **Women in Mathematics in Southern California Symposium;** Pomona February 2024
College; Claremont, California
"Using Diagrams to Describe Quantum Symmetries of Subfactors"
- *12. **Joint Mathematics Meetings;** Knots, Skein Modules, and Categorification January 2024
Special Session; Moscone Center; San Francisco, California
"Skein Theory for Index 4 Subfactor Planar Algebras"
- *11. **Claremont Topology Seminar;** Pomona College; Claremont, California November 2023
"Skein Theory for Affine ADE Subfactor Planar Algebras"
- *10. **Twinned Conference on C*-Algebras and Tensor Categories;** Fields Institute; November 2023
in person in Toronto, Canada; and International Centre for Mathematical
Sciences; streamed live at Edinburgh, Scotland
"Skein Theory for Affine ADE Subfactor Planar Algebras"
9. **Young Mathematicians in C*-Algebras;** KU Leuven; Leuven, Belgium August 2023
"Skein Theory of Subfactor Planar Algebras"
8. **Great Plains Operator Theory Symposium;** The Ohio State University; May 2023
Columbus, Ohio
"Skein Theory for Index 4 Subfactor Planar Algebras"
7. **AMS Spring Western Sectional;** Algebraic Structures in Knot Theory Special May 2023
Session; Fresno State University; Fresno, California
"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"
6. **Moab Topology Conference;** Utah State University, Moab; Moab, Utah May 2023
"Skein Theory for Affine ADE Subfactor Planar Algebras"
5. **Redbud Topology Conference;** University of Oklahoma; Norman, Oklahoma March 2023
"Skein Theory of Affine Type A Subfactor Planar Algebras"
4. **Underrepresented Students in Topology and Algebra Symposium;** March 2023
University of Washington, Seattle, Washington
"Diagrammatic Presentations of Index 4 Planar Algebras"
- *3. **Quantum Groups Seminar;** On Zoom; Hosted by Université de Lille in Lille, March 2023
France & University of Oslo in Oslo, Norway
"Skein Theory for Affine ADE Subfactor Planar Algebras"
2. **Tech Topology Conference;** Georgia Institute of Technology; Atlanta, Georgia December 2022
"Diagrammatic Presentations of Index 4 Subfactor Planar Algebras"
1. **Topology Students Workshop;** Georgia Institute of Technology; Atlanta, July 2022
Georgia
"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"
- POSTERS**
2. **Graduate Student Topology and Geometry Conference;** Michigan State April 2024
University; East Lansing, Michigan
"A Determinant Formula of the Jones Polynomial for a Family of Braids"

	1. BRIDGES Conference ; University of Utah; Salt Lake City, Utah <i>"Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4"</i>	June 2022
TEACHING	Lead TA - UC Santa Barbara Provided professional development and training to new math department TAs	Fall 2022 - Spring 2023
	Teaching Assistant - UC Santa Barbara 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	Fall 2019 - present
	Associate Instructor - UC Santa Barbara MATH 6A - Vector Calculus I MATH 4A - Linear Algebra with Applications	Summer 2020, 2021, 2024
	Adjunct Mathematics Professor - Cosumnes River College MATH 30 - Pre-Algebra STAT 300 - Introduction to Statistics and Probability MATH 20 - Arithmetic	Spring 2018 - Spring 2019
	Teaching Assistant - University of Oklahoma MATH 1743 - Business Calculus I MATH 1914 - Calculus 1 (Fast Track) MATH 2924 - Calculus 2 (Fast Track) MATH 1823 - Calculus 1	Fall 2015 - Spring 2017
	Instructor of Record - University of Oklahoma MATH 1823 - Calculus 1 MATH 1503 - College Algebra	Fall 2014 - Summer 2015 & 2016
	UCSB Directed Reading Program Mentor REU Graduate Mentor, UCSB Women in STEM Mentor, UCSB	December 2019 - June 2023 June 2022 - August 2022 September 2019 - June 2022
SERVICE	USTARS 2025 Conference Co-Organizer	May 2024 - present
	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 Quantum Algebra and Topology Seminar Co-Organizer, UCSB	August 2022 - June 2023 September 2021 - June 2022