

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" with S. Bigelow (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 and their relations to dynamical systems, knot theory, quantum groups	
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. 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	National Science Foundation Travel Grant (\$2300) National Science Foundation Travel Grant (\$1000) GSA Conference Travel Grant, UC Santa Barbara (\$500) USTARS Distinguished Graduate Student Speaker in Topology (\$200) National Science Foundation Travel Grant (\$1350) Operator Algebra Mentor Network Grant (\$500) Decolvenaere Research Accelerator Award, UCSB Graduate Division (\$8000) Individualized Professional Skills (IPS) Grant, UC Santa Barbara (\$1000) Math Department Graduate Fellowship, University of Oklahoma (\$3000) Richard V. Andree Memorial Scholarship, University of Oklahoma (\$2000) Yueh-Jing Lin Fund, UC Davis (\$2500)	2024 2024 2024 2024 2023 2023 2023 2023 2015 2015 2013
TALKS *=INVITED	*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> *19. Young Mathematicians in C^* Algebras ; University of Glasgow; Glasgow, Scotland <i>"Using Diagrams to Describe Quantum Symmetries of Subfactors"</i> *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>	October 2024 August 2024 May 2024

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

POSTERS	4. Graduate Student Topology and Geometry Conference ; Michigan State University; East Lansing, Michigan <i>"A Determinant Formula of the Jones Polynomial for a Family of Braids"</i>	April 2024
	3. 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
	2. Undergraduate Research Conference ; University of California, Davis; Davis, California <i>"Comparing Voting Systems Using Kemeny Rankings"</i>	April 2014
	1. MAA Golden Section Meeting ; Sonoma State University; Sonoma, California <i>"Comparing Voting Systems Using Kemeny Rankings"</i>	February 2014
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
	Classification of C^*-Algebras and Dynamics Seminar Oberwolfach Research Institute for Mathematics (MFO)	May 2024
	Skew Braces, Braids, and the Yang-Baxter Equation Workshop Banff International Research Station (BIRS)	May 2024
	Quantum Invariants and Low-dimensional Topology	August 2023

	American Institute of Mathematics (AIM) Women in Operator Algebras 3 Banff International Research Station (BIRS)	June 2023
MENTORSHIP	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 AWM Student Chapter at UCSB, Secretary Directed Reading Program at UCSB Co-Organizer Graduate Quantum Algebra and Topology Seminar Co-Organizer, UCSB AWM Chapter at UCSB Founder and President Quantum Algebra and Topology Seminar Co-Organizer, UCSB	May 2024 - present June 2023 - present December 2020 - July 2023 July 2023 - January 2024 August 2022 - June 2023 September 2021 - June 2022
ORGANIZATIONS	Operator Algebra Mentor Network - Mentee	February 2023 - present