## Melody A.H. Molander

CONTACT INFORMATION		melodymolander[at]math.ucsb.edu melodymolander.com
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>B.S. in Mathematics</b>	September 2010 - June 2014
PAPER	1. "Diagrammatic Presentations of Index 4 Subfactor Planar Algebras" (in preparation)	
RESEARCH INTERESTS	Subfactors, Planar Algebras, Quantum Groups, Quantum Algebra, Operator Algebras, Low-dimensional Topology, Category Theory	
AWARDS	Department of Mathematics Graduate Fellowship - University of Oklahoma Awarded to graduate students who make exceptional contributions to the mathematics department	2015
	Richard V. Andree Memorial Scholarship - University of Oklahoma Awarded to graduate students who have shown academic excellence, department and university citizenship, and activity in support of Pi Mu Epsilon	2015
	Yueh-Jing Lin Fund - UC Davis Awarded to high-achieving graduate or undergraduate students.	2013
SELECTED TALKS	Diagrammatic Presentations of Index 4 Subfactor Planar Algebras Tech Topology Conference, Georgia Tech	December 2022
	Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4 Topology Students Workshop, Georgia Tech	July 2022
	Diagrammatic Presentations of Affine Type A Subfactor Planar Algebras of Index 4 BRIDGES Conference, Poster Session, University of Utah	June 2022
	Comparing Voting Systems Using Kemeny Rankings Undergraduate Research Conference, Student Poster Session - UC Davis	April 2014
	Comparing Voting Systems Using Kemeny Rankings  MAA Golden Section Meeting, Student Poster Session - Sonoma State University	February 2014
TEACHING EXPERIENCE	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	Summer 2020, Summer 2021

MATH 4A - Linear Algebra with Applications

Adjunct Mathematics Professor - Cosumnes River College

MATH 30 - Pre-Algebra

STAT 300 - Introduction to Statistics and Probability

MATH 20 - Arithmetic

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

Instructor of Record - University of Oklahoma

MATH 1823 - Calculus 1

MATH 1503 - College Algebra

Katherine Johnson: The Pioneer Whose Research Got Us to Outer Space!

Hypatian Seminar, UC Santa Barbara

The Total Beginner's Guide to Creating Your Graduate Student Webpage

Hypatian Seminar, UC Santa Barbara

Pascal's Triangle

TALKS FOR

**STUDENTS** 

AWM, UC Santa Barbara

Ada Lovelace: Victorian Computer Programming Visionary

Hypatian Seminar - University of California, Santa Barbara

My Career In Web Development (and Teaching!)

Mathematics Career Day - University of California, Davis

Fractals and the World Around Us (with Dr. Jeffrey Meyer)

Math Day Fun Session - University of Oklahoma

Barbers, Painters, and Berry: Famous Paradoxes and Their Relation to Mathematics

Math Club at UC Davis

WORK **Graduate Teaching Assistant** 

**EXPERIENCE** Mathematics Department, UC Santa Barbara

Adjunct Faculty Professor

Cosumnes River College, Los Rios Community College District

Internet Data Exchange Director

iHOUSEweb Inc.

Lead Mathematics Academic Tutor

Kingsfield Tutors

**Graduate Teaching Assistant** 

Mathematics Department, University of Oklahoma

Math Center, Mathematics Department, University of Oklahoma

Grader

Mathematics Department, University of California - Davis

Student Academic Success Center, University of California - Davis

Spring 2018 - Spring 2019

Fall 2015 - Spring 2017

Fall 2014 - Summer 2015, Summer 2016

November 2021

January 2021

February 2020

November 2019

May 2018

November 2015

October 2013

September 2019-present

January 2018 - August 2019

July 2017 - August 2019

July 2017 - February 2018

August 2014 - May 2017

August 2014 - May 2017

August 2013 - June 2014

August 2013 - June 2014

<b>ACADEMIC</b>
SERVICE

AWM Chapter at UCSB Founder and President August 2022 - present

REU Graduate Mentor, UCSB June 2022 - present

Directed Reading Program Co-Organizer and Mentor, UCSB Winter 2020 - present

Women in STEM Mentor, UCSB September 2019 - present

Quantum Algebra and Topology Seminar Co-Organizer, UCSB September 2021 - present

Graduate Quantum Algebra and Topology Seminar Co-Organizer, UCSB September 2021 - present

UC Santa Barbara Math Circle Aide September 2020 - September 2021

Mathematics Career Day Panelist, UC Davis

May 2018

Mathematics Graduate Student Association Vice President, OU August 2016 - May 2017

Math Day Fun Session Coordinator, OU November 2015, November 2016

Volunteer - Women in STEM Conference by OK-EPSCOR October 2016

Directed Reading Program Graduate Mentor, OU January 2016 - May 2016

Math Teacher's Circle in OKC, Graduate Coordinator and Co-Founder August 2015 - May 2017

TORAS Conference, Co-Organizer March 2015

Undergraduate Mathematics Committee, Graduate Representative, OU August 2014 - May 2015

Math Club Event Coordinator, UC Davis August 2013 - June 2014

Undergraduate Volunteer, Davis Math Circle December 2012 - April 2013

Coach, SF Bay Area/NorCal American Regions Mathematics League December 2012 - June 2014

Math Club President, Math Club at UC Davis

August 2012 - June 2013

## **PROGRAMMING**

Excel, MATLAB, C, HTML, CSS, Python, SQL, and LaTeX