

# Elizabeth Holmen-Crow

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## Education

- 2025 **University of California, Santa Barbara**  
*PhD Candidate, Department of Mathematics*  
*Dissertation: The Teichmüller Space of Homogeneous Affine Tori*
- 2021 **University of California, Santa Barbara**  
*Master of Arts in Mathematics*
- UCSB Regents Fellowship Award, 2018-2019
- 2018 **Calvin College**  
*Bachelor of Science in Mathematics with Honors*  
*Bachelor of Arts in French*
- Rinck Memorial Award, Math Department, 2018
  - French Department Outstanding Senior, 2018
  - Dean's List, 2014-2018
  - Academic Advising Committee 2016-2018

## Teaching Experience

- Jan 2025-Present **Assistant Professor of Mathematics**  
*Point Loma Nazarene University*  
Math 1033: Pre-Calculus (SP25)  
Math 1053: Math Analysis for Business and Econ (SP25)  
Math 3003: Problem Solving (SP25)  
Math 1064: Calculus 1 (FA25)
- Summer 2021, 2022 **Instructor of Record**  
*UCSB Math Department*  
Math 3A: Calculus with Applications I
- Daily instruction for 6 weeks, office hours, course design and management
  - Coordinated with a TA for their twice-weekly discussion sections
- Fall 2018-Dec 2024 **Teaching Assistant**  
*UCSB Math Department*
- Assigned various courses to teach weekly or twice-weekly discussion sections, hold office hours, work in the math lab, design supplementary materials, grade homework and/or exams
  - Zoom teaching indicated with \*, Head TA indicated in bold
- Math 2A/B: Calculus with Algebra and Trig I/II (FA19/W20)  
Math 3A/B: Calculus with Applications I/II (FA18/SP21\*)  
Math 4A: Linear Algebra with Applications (SU20\*, **FA20\***)  
Math 6B: Vector Calculus II (W21\*)  
Math 8: Transition to Higher Mathematics (FA23)  
Math 34A/B: Calc for Social and Life Sciences I/II (**FA21, W23/W22, W24**)  
Math 108A/B: Linear Algebra II (FA24, FA25/SU23)  
Math 111A: Abstract Algebra I (FA22)  
Math 145: Introduction to Topology (SP20\*)  
Math 182: History of Mathematics (SP22)

## Service

January 2026	JMM Project NExT Session Co-organizer <ul style="list-style-type: none"><li>• <i>Centering Fun and Joy in the Classroom: Insights and Perspectives Inviting Students into the Joy of Mathematics</i></li></ul>
2022-2023	Association for Women in Mathematics Publicity Chair <ul style="list-style-type: none"><li>• Designed and distributed promotional materials for the chapter</li></ul>
2019-2023	Hypatian Seminar Co-Organizer <ul style="list-style-type: none"><li>• Provided a space for underrepresented voices in math to be heard and honored, organized seminars and speakers to improve the graduate student experience for all</li></ul>
2020	Directed Reading Program Mentor <ul style="list-style-type: none"><li>• Mentored an undergraduate student on topological graph theory</li><li>• Advised on the creation of an end-of-year poster</li></ul>
2019, 2020, 2023	Graduate Recruitment <ul style="list-style-type: none"><li>• Aided in math department efforts to promote programs and research groups at UCSB by taking students to lunch</li></ul>
Winter 2023	Finding an advisor Panel, UCSB
Fall 2022	Experienced TA and Graduate Student Panel, UCSB
Summer 2021	Preparing Undergraduates for Graduate School Graduate Panel, UCSB
Spring 2021	Graduate School in Math Panel, Marian University

## Professional Development

2025-2026	MAA Project NExT Fellow, Orange '25
2022-2023	Community of Practice for Graduate Students: Course Design for Equity <ul style="list-style-type: none"><li>• Discussed various teaching modalities, grading styles, accessibility, and structural barriers in academia</li><li>• Workshopped course components and assignments</li></ul>
2021	Summer Teaching Institute for Associates <ul style="list-style-type: none"><li>• Course planning, workshops on pedagogy, technology training, mentorship while teaching</li></ul>
2018-Present	Certificate in College and University Teaching <ul style="list-style-type: none"><li>• TA training, use of evidence-based pedagogy in the classroom, feedback on teaching skills, reflection on teaching philosophy</li></ul>

## Talks and Conferences

Spring 2024	Calvin University Math Colloquium Speaker <ul style="list-style-type: none"><li>• <i>From the Euler Characteristic to Affine Geometry</i></li></ul>
Fall 2023	Wasatch Topology Conference, University of Utah <ul style="list-style-type: none"><li>• Annual conference in Geometric Group Theory (GGT)</li><li>• Presented <i>Projective Structures on the Circle</i></li></ul>
Summer 2023	Group Actions and Low-Dimensional Topology Conference, Spain <ul style="list-style-type: none"><li>• Part of a thematic program in GGT and Low-Dim Topology</li></ul>
Spring 2023	Underrepresented Students in Topology and Algebra Research Symposium

Fall 2023	UCSB Graduate Topology Seminar Speaker <ul style="list-style-type: none"> <li>• <i>Projective Structures on the Circle</i></li> </ul>
Winter 2023	UCSB Topology Seminar Speaker <ul style="list-style-type: none"> <li>• <i>The Deformation Space of Affine Tori</i> (Advancement to Candidacy talk)</li> </ul>
Spring 2022	Calvin University Math Colloquium Speaker <ul style="list-style-type: none"> <li>• <i>The highs and lows of graduate school and finding Christ in the cracks</i></li> </ul>
Fall 2020	UCSB Graduate Topology Seminar Speaker <ul style="list-style-type: none"> <li>• <i>The Alexander Horned Sphere</i></li> </ul>

## Memberships

Mathematical Association of America  
Association for Women in Mathematics  
American Mathematical Society