	EMPLOYMENT -
	EMI EOTMENT
2022-present	Lafayette College, Assistant Professor
2020-2022	Swarthmore College , Visiting Assistant Professor
2019-2020	Colby College, Visiting Assistant Professor
2018-2019	Grinnell College, Visiting Assistant Professor
	EDUCATION -

2018 Ph.D. Mathematics, University of California, Santa Barbara

Thesis: The Geometry and Topology of the Dual Braid Complex

Advisor: Jon McCammond

2014 M.A. Mathematics, University of California, Santa Barbara

2012 B.A. Mathematics with Honors, Grinnell College

AWARDS AND HONORS

2021-2022 MAA Project NExT Fellow (Gold '21)

2020 **President's Fund for Racial Justice**, Swarthmore College Course development grant: "Mathematics and Social Justice"

2018 Excellence in Teaching Award, UCSB Graduate Student Association

2017 Outstanding Teaching Assistant, UCSB Department of Mathematics

2012-2018 Graduate Fellowship, National Physical Sciences Consortium

PUBLICATIONS AND PREPRINTS -

(mentored undergraduate coauthors denoted with an asterisk*)

8. Noncrossing Partition Lattices from Planar Configurations Preprint, with S. Cohen*, A. Harsh*, S. Martin*

7. The Polyhedral Tree Complex

Combinatorial Theory, 2-3 (2022)

6. Geometric Combinatorics of Polynomials I: The Case of a Single Polynomial Journal of Algebra, 607-B (2022), with J. McCammond

5. Boundary Braids

Algebraic & Geometric Topology, 20-7 (2020), with J. McCammond, S. Witzel

- Critical Points, Critical Values, and a Determinant Identity for Complex Polynomials
 Proceedings of the American Mathematical Society, 148-12 (2020), with J. McCammond
- 3. Undesired Parking Spaces and Contractible Pieces of the Noncrossing Partition Link Electronic Journal of Combinatorics, 25-1 (2018), with J. McCammond
- 2. A Decomposition of Parking Functions by Undesired Spaces
 Electronic Journal of Combinatorics, 23-3 (2016), with M. Bruce*, M. Hlavacek*, R. Kudo*, I. Nicolas*
- Hankel Transforms of Linear Combinations of Catalan Numbers
 Journal of Integer Sequences, 14-11.5.1 (2011), with C. French, W. Qian, B. Saderholm

	UNDERGRADUATE RESEARCHERS SUPERVISED ————————————————————————————————————		
	- Swarthmore College		
	Stella Cohen, Andrew D. Harsh, and Spencer Park Martin		
	University of California, Santa Barbara		
2015	Melody Bruce, Max Hlavacek, Ryo Kudo, and Ian Nicolas		
	TEACHING EXPERIENCE		
	Lafayette College		
Math 104	A World of Mathematics	Spring 2023 (x2)	
Math 162	Calculus II	Fall 2022	
Math 165	Calculus I+	Fall 2023	
Math 351	Abstract Algebra I	Fall 2023 (x2)	
Math 358	•	Fall 2022	
	Independent Study (Group Theory for Physics)	Fall 2023	
	Swarthmore College		
Math 20	Mathematics and Social Justice	January 2021	
Math 25	Single-Variable Calculus II	Fall 2021 (x2)	
Math 27	Linear Algebra	Fall 2020	
Math 67	Introduction to Modern Algebra	Spring 2021 (x2), Spring 2022	
Math 77	Advanced Topics in Algebra (Geometric Group Theory)	Spring 2022	
Math 93	Directed Reading (Reflection Groups and Coxeter Groups)	Fall 2021	
	Colby College		
Math 121	Single-Variable Calculus	Fall 2019 (x2)	
Math 122	Series and Multi-Variable Calculus	Spring 2020 (x2)	
Math 253	Linear Algebra	Spring 2020	
	Grinnell College		
Math 131	Calculus I	Fall 2018 (x2)	
Math 133	Calculus II	Fall 2018, Spring 2019	
Math 444	Senior Seminar (Geometric Group Theory)	Spring 2019	
	University of California, Santa Barbara (Instructor of Record)		
Math 4A	Linear Algebra with Applications	Summer 2016, Summer 2017	
	University of California, Santa Barbara (Teaching Assistant)		
Math 34A	Calculus for the Life and Social Sciences (Head TA)	Winter 2015	
Math 3A	Calculus I	Winter 2016	
Math 3B	Calculus II	Winter 2016	
Math 4A	Linear Algebra with Applications	Spring 2016, Spring 2017	
Math 6A	Vector Calculus I	Fall 2016	

Math 108A Advanced Linear Algebra I

Spring 2014, Fall 2015, Fall 2017

	SELECTED RESEARCH TALKS		
	- Invited Talks (Conferences and Colloquia)		
2023	Spring Topology and Dynamical Systems Conference Special Session on Geometric Group Theory	Rhodes College (virtual)	
2022	Summer@ICERM REU	Providence, RI	
2022	Bi-College Math Colloquium	Haverford College	
2021	AMS Spring Southeastern Sectional Meeting Special Session on Groups, Geometry, and Topology	Atlanta, GA (virtual)	
2014	Mathematics and Statistics Student Seminar	Grinnell College	
	Invited Talks (Seminars)		
2023	University of California, Santa Barbara	Topology Seminar	
2023	University at Albany	Algebra/Topology Seminar	
2022	Haverford College	PATCH - Philadelphia Area Topology (Contact/Hyperbolic)	
2022	University of Pennsylvania (virtual)	Deformation Theory Seminar	
2022	Temple University	Geometry & Topology Seminar	
2020	Otto-von-Guericke-Universität Magdeburg (virtual)	Algebra & Geometry Seminar	
2019	Georgia Institute of Technology	Geometry & Topology Seminar	
2018	Brown University	Geometry & Topology Seminar	
	Contributed Conference Talks		
2020	Joint Mathematics Meetings AMS Special Session on The Geometry of Complex Poly	Denver, CO ynomials and Rational Functions	
2019	P Tech Topology Conference Atlanta,		
2019	P Algorithms in Complex Dynamics and Mapping Class Groups Provi		
2019	P Tech Topology Conference		
2019	19 Tech Topology Conference		
2019	Tech Topology Conference	Atlanta, GA	
2019	Topology Students Workshop	Atlanta, GA	
	PEDAGOGICAL DEVELOPMENT AND OUTREACH —		
2023-2026	Invited Project Participant, Framing Mathematics as a	Foundation for Ethical STEM	
	Mathlab Coordinator, UC Santa Barbara		
	Lead Teaching Assistant (Math Department TA Training	g), UC Santa Barbara	
	Session Speaker (Campus-wide orientation for new teaching assistants), UC Santa Barbara		
	Math Circle Instructor (4 talks given), UC Santa Barba		

	DEPARTMENT SERVICE -		
	Seminar and Colloquium Organization		
2020-2022	Colloquium Helper	Swarthmore College	
2018-2019	Colloquium Organizer (Mathematics and Statistics Student Seminar)	Grinnell College	
2013-2018	Seminar Organizer (Discrete Geometry & Combinatorics Seminar)	UC Santa Barbara	
2012-2017	Seminar Co-Organizer (Hypatian Seminar)	UC Santa Barbara	
	Department Talks Given		
2023	Pi Mu Epsilon Induction Ceremony	Lafayette College	
2023	Cryptography Competition Kickoff Talk: Diffie-Hellman Key Exchange	Lafayette College	
2022	Mathematical Adventures and Diversions: Configuration Spaces	Lafayette College	
2021	Interactive Math Colloquium	Swarthmore College	
2019	New Math Faculty Colloquium	Colby College	
	Committee Work		
2020-2022	Community Building Helper	Swarthmore College	
2010-2012	Committee Member (Student Educational Policy Committee, Mathematics)	Grinnell College	
	COLLEGE SERVICE -		
	Lafayette Undergraduate Thesis Committees		
2023	Brian Payne (Music)		
	PROFESSIONAL SERVICE		
	Conference Organization		
2022	Session Co-Organizer (Teaching Undergraduate Topology), Nearly Carbon Neutral Geometric Topology Conference		
	Peer Review		
	Journal Referee (Journal of Combinatorial Algebra, Proceedings of the AMS)		
	Reviewer (Mathematical Reviews x2)		
	CONFERENCES AND WORKSHOPS ATTENDED		
2023	Framing Mathematics as a Foundation for Ethical STEM	Washington, DC	
2023	Spring Topology and Dynamical Systems Conference	(virtual)	
2022	Nearly Carbon Neutral Geometric Topology Conference	(virtual)	
2022	MAA MathFest	Philadelphia, PA	
2021	MAA MathFest	(virtual)	
2021	Artin Groups, CAT(0) Geometry, and Related Topics	Columbus, OH (virtual)	
2021	Perspectives on Artin Groups	Edinburgh, Scotland (virtual)	
2021	AMS Spring Southeastern Sectional Meeting	Atlanta, GA (virtual)	
2020	Joint Mathematics Meetings	Denver, CO	
2019	Tech Topology Conference	Atlanta, GA	

Providence, RI	Algorithms in Complex Dynamics and Mapping Class Groups		
Atlanta, GA	8 Tech Topology Conference		
Les Diablerets, Switzerland	8 Young Geometric Group Theory VII		
Atlanta, GA	7 Tech Topology Conference		
Montréal, Canada	Algebraic and Geometric Combinatorics of Reflection Groups	2017	
Oxford, England	Young Geometric Group Theory VI	2017	
Atlanta, GA	Topology Students Workshop	2017	
Atlanta, GA	Tech Topology Conference	2016	
Berkeley, CA	MSRI Workshop - Geometry of Mapping Class Groups and Out(\mathbb{F}_n)	2016	
Vancouver, Canada	FPSAC (Formal Power Series and Algebraic Combinatorics)	2016	
Atlanta, GA	Topology Students Workshop	2016	
Las Vegas, NV	AMS Spring Western Sectional Meeting	2015	
Iowa City, IA	The Thin Manifold - Graduate Workshop	2014	
Baltimore, MD	Joint Mathematics Meetings	2014	
Los Angeles, CA	A Day of Triangulations	2013	
San Diego, CA	Joint Mathematics Meetings	2013	
Ames, IA	lowa Summer Research Symposium	2010	