

Sam Sehayek

Graduate Teaching Associate
University of California Santa Barbara

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Education

Doctorate , Mathematics <i>University of California, Santa Barbara</i>	Candidate
Advisor: Jon McCammond GPA: 4.00	
Master of Arts , Mathematics <i>San Francisco State University</i>	June 2018
Advisor: Joseph Gubeladze GPA: 3.98	
Bachelor of Science , Mathematics <i>University of California, Davis</i>	June 2014
Minor in Philosophy GPA: 3.53	

Research

<i>Real Polynomials and Dual Braids</i>	In Preparation
<i>Symmetric Noncrossing Partitions</i>	In Preparation
Master's Thesis: <i>Geometric Extensions and the $1/3$–$2/3$ Conjecture</i>	Defended Spring 2018
Advisor: Joseph Gubeladze	

Teaching

University of California Santa Barbara , Department of Mathematics	2018–Present
<i>Instructor</i> Math 34A Calculus for Social Sciences Summer I 2020	
Math 4A Linear Algebra Summer I 2021	
<i>Teaching Assistant</i> Math 34A/B Calculus for Social Sciences W/S20; W/S19; F18	
Math 2/3A Calculus I F20; M19	
Math 4A Linear Algebra F/W21; F19; S22	
Math 8 Proof Techniques S21	
Math 108B Advanced Linear Algebra W22	
<i>Lead Teaching Assistant</i> Training/mentoring 1st year Teaching Assistants	2020–2021
Summer Institute in Mathematics & Science (SIMS) , CNSI	2020–Present
<i>Lead Instructor</i> Linear Algebra and its Applications	
Program development, Academic preparation for incoming freshman.	
San Francisco State University , Department of Mathematics	2017–2018
<i>Instructor</i> Math 199 Precalculus Spring 2018, Spring 2017;	
Math 70 Entry Math II Fall 2017	
<i>Teaching Assistant</i> Math 226 Calculus I Fall 2017	
ArborBridge , Los Angeles, CA	2015
<i>Tutor</i> Professional tutoring services in Geometry, and SAT, ACT, ISEE prep	
University of California, Davis Department of Mathematics	2012–2014
<i>Grader</i> for Linear Algebra, Differential Equations, & Calculus for Biological Sciences	

Awards & Honors

<i>Academic Senate Outstanding TA Award</i> — Nominee	2022
<i>GSA Excellence in Teaching Award</i> — Nominee	2021
<i>Achievement Rewards for College Scientists (ARCS)</i> Scholar	2017–2018
<i>College of Sciences and Engineering Student Showcase</i> — 3rd Place	2018
<i>Dean's Honor List</i>	2011, 2014
<i>National Society for Leadership and Success</i> — Inducted Member	2013
<i>Judy Zadeh Memorial Scholarship</i>	2010

Work Experience

Career Group Inc. Los Angeles, CA	2015–2016
<i>Accounting Assistant</i> Payables/receivables and payroll for a national headhunting firm.	
Cargomatic Los Angeles, CA	2015
<i>Operations/Accounting Aid</i> Ops and accounting aid in a quick growing tech company.	
Office of the University Registrar Davis, CA	2012–2014
<i>Student Assistant</i> Student record management and customer interfacing.	

Computer Skills

Proficient in Mathematica ; Macauluy2 ; SAGE ; Python ; MATLab ; Gameplan

Mathematics Presentations

Topology Seminar University of California Santa Barbara	
<i>Braids and the Space of Complex Polynomials</i>	
	Spring 2021
Graduate Topology Seminar University of California Santa Barbara	
<i>Dual Braids and Polynomials</i>	
	Winter 2021
Hypatian Seminar University of California Santa Barbara	
<i>How to Give a Talk</i>	
	Fall 2021
<i>Equity in Math Classrooms</i>	
	Spring 2020
<i>Hypatia: Modern Woman of Antiquity</i>	
	Fall 2018 & 2019
Directed Reading Program University of California Santa Barbara	Spring 2019
<i>Graduate School in Mathematics</i>	
ARCS Symposium Stanford University	Spring 2018
COSE Student Showcase San Francisco State University	
Graduate Student Research Showcase San Francisco State University	
Poster: <i>Geometric Extensions and the $1/3 - 2/3$ Conjecture</i>	
Algebraic Topology Seminar San Francisco State University	Fall 2017
<i>Fundamental Group of S^n</i>	
<i>Classification of Surfaces</i>	
Mathematics of Global Change Seminar University of California, Davis	Spring 2013
<i>Copernican Revolution, Kepler, and the Mars Year</i>	

Community Engagement

<i>Directed Reading Program</i> Mentor for Yanru Liu: Primitive Parking Functions	2022
Jake Annis: Non-Simplicial Faces of Polytopes	2021
Helen Chen: Visualizing 4D Polytopes	2020
Colbert Orta: On Toric Varieties	2019
<i>Hypatian Seminar</i> : Voices of Under-represented Mathematicians; Lead Organizer	2018–Present
<i>Mathematistas</i> : For the advancement of Women & Gender Minorities in Math; Member	2016–Present
<i>American Mathematical Society</i> (AMS) Member	2016–Present
<i>Planet Hope</i> Volunteer	2002–2015
<i>California Scholarship Foundation</i> Tutor	2008–2010
<i>Habitat For Humanity</i> Volunteer	2010

Extracurricular

EFR and CPR Certified; *Advanced SCUBA* PADI Certified; *Awarded Homebrewer*; *Guitarist*;
Martial Artist Tae Kwon Do (2nd Degree Black Belt); Hapkido (Green Belt); Hwa Rang Do (Green Belt)