ELAINA ACEVES

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EDUCATION	PhD in Mathematics, The University of Iowa Dissertation: Train tracks of pseudo-Anosov 3-braids and non-degenerate flype Advisor: Keiko Kawamuro	May 2022	
	Masters of Science in Mathematics, The University of Iowa	May 2018	
	Masters of Arts in Mathematics, Traditional Track, California State University, Fresno Thesis: A Study of Projections of 2-Bouquet Graphs Advisor: Carmen Caprau	May 2016	
	Bachelor of Arts in Mathematics, California State University, Fresno	May 2014	
CERTIFICATIONS	Certificate in Online Teaching The University of Iowa	Spring 2022	
	Graduate Certificate in College Teaching The University of Iowa	Fall 2020	
EMPLOYMENT	Instructor (postdoc) The University of Utah	Fall 2022- present	
	Instructor or TA The University of Iowa	Fall 2018- Spring 2021	
	Instructor California State University Fresno	Summer 2014- Spring 2016	
PUBLICATIONS	Agol cycles of pseudo-Anosov 3-braids (with K. Kawamuro), <i>Geometriae Dedicata</i> , Volume 217, No. 5 (2023).		
	Comparing Bennequin-type inequalities (with K. Kawamuro and L. Truong), New York Journal of Mathematics, Volume 27, 124-140 (2021).		
	A study of projections of 2-bouquet graphs, Journal of Knot Theory and its Ramifications, Volume 26, No. 5 (2017).		
	On invariants for spatial graphs (with J. Elder), Rose-Hulman Undergraduate Mathematics Journal, Volume 16, Issue 2, Article 1 (2015).		
	Cycles in projective spaces (with D. Heywood, A. Klahr, and O. Vega). <i>Journal of Geometry</i> , 105, 111-117 (2014).		
EXPOSITORY PUBLICATIONS	Fellowships, grants, and awards: advice from award recipients Grad Blog Post (September 18, 2019).	s, AMS Math	
	Mathematics conferences, Math Horizons, Volume XXIII, Issue 1 (Sep	tember 2015).	

TEACHING	The University of Utah, Instructor of Record	C
Experience	Math 1030: Quantitative Reasoning, 2 sections	Spring 2024
	Math 1090: Business Algebra, 1 section	Spring 2024
	Math 1050: College Algebra, 1 section	Fall 2023
	Math 1080: Precalculus, 1 section	Fall 2023
	Math 1090: Business Algebra (online), 1 section	Summer 2023
	Math 1080: Precalculus, 2 sections	Spring 2023
	Math 1030: Quantitative Reasoning, 2 sections	Fall 2022
	Math 1220: Calculus II, 1 section	Fall 2022
	The University of Iowa, Instructor of Record	
	Math 1460: Calculus for the Biological Sciences, 1 section	Summer 2021
	Math 1900: Calculus for the Biological Sciences, 1 section Math 1005: College Algebra, 1 section	Fall 2020
	Math 1005. College Algebra, 1 Section	Fall 2020
	The University of Iowa, Teaching Assistant	G
	Math 1860: Calculus II, 2 sections	Spring 2021
	Math 1850: Calculus I, 2 sections	Fall 2019
	Math 1560: Engineering Math II: Multivariable Calculus, 1 section	Fall 2018
	The University of Iowa, Practica	
	Math 3770: Fundamental Properties Spaces/Funct I	Fall 2020
	Math 1560: Engineering Math II: Multivariable Calculus	Fall 2019
	California State University, Fresno, Head Instructor	
	Math 1RB: Developmental Math II	Spring 2016
	Math 1RA: Developmental Math I	Fall 2015
	Summer Bridge Math	Summer 2015
	Summer Bridge Mach	Summer 2019
	California State University, Fresno, Instructor of Record	
	Math 1RB: Developmental Math II, 1 section	Spring 2016
	Math 1RA: Developmental Math I, 1 section	Fall 2015
	Summer Bridge Math, 1 section	Summer 2015
	Math 1RB: Developmental Math II, 2 sections	Spring 2015
	- · · · · · · · · · · · · · · · · · · ·	Fall 2014
	Math 1RA: Developmental Math I, 1 section	
	Summer Bridge Math, 1 section	Summer 2014
	Early Start Math, 1 section	Summer 2014
Honora America	Ford Foundation Predoctoral Fellowship	2018-2022
Honors, Awards, and Scholarships	National Academies of Sciences, Engineering, and Medicine	2010 2022
	3.4 d A 11 C 1 1	2014 2022
	Math Alliance Scholar	2014 – 2022
	The University of Iowa, California State University, Fresno	
	Alfred P. Sloan Scholar	2016-2021
	The University of Iowa	
	Graduate College Recruitment Fellowship The University of Iowa	2016-2021
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	Graduate Assistance in Areas of National Need Fellowship The University of Iowa	2016–2018
	Underrepresented Minority Pre-Comprehensive Exam Mentored Research Fellowship The University of Iowa	Spring 2018
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	Department of Mathematics' Outstanding Graduate Student Mathematics Department, California State University, Fresno	2016
	Graduate Equity Fellowship California State University Chancellor's Office	2014-2016
	Fresno State Tensor Women Scholar MAA Tensor Women and Mathematics Grant	2012-2015
	President's Honors Scholarship Smittcamp Family Honors College, California State University, Fresno	2010-2014
	Outstanding Presentation Award at Central California Research Symposium Office of Research and Sponsored Programs of California State University, Fresno	2013
MENTORING,	The University of Utah	
OUTREACH, AND SERVICE	Math Teacher Training Workshop Organizer and Facilitator	Summer 2023
	The University of Iowa	
	Sonia Kovalevsky Day Activity Leader	Spring 2022
	Panorama of Geometry and Topology # 3 Organizer	November 2021
	Kids Topology Club Organizer	Fall 2021
	Topic Session Organizer of Knots and Braids in Dimensions 3 and 3.5 Session in Nearly Carbon Neutral Geometry and Topology Conference (NCNGT)	June 2021
	Directed Reading Program Organizer	Spring 2021
	Virtual Grad Fair Volunteer at the Field of Dreams hosted by the Math Alliance and Partners	October 2020
	Directed Reading Program Organizer	Fall 2020
	Directed Reading Program Mentor in Knot Theory One student	Fall 2020
	Directed Reading Program Mentor in Graph Theory One student	Spring 2020
	Field of Dreams hosted by the Math Alliance and Partners Grad Fair Volunteer	November 2019
	Graduate and Professional Student Government Grant Reviewer for Travel and Research Grants	Fall 2019
	Directed Reading Program Mentor in Knot Theory One student	Fall 2019
	Topology Reading Seminar Organizer	Fall 2019
	Zoom webinar entitled "Personal Statements and Q & A with Ford Fellow Elaina Aceves" hosted by the Graduate College	August 2019

	Sonia Kovalevsky Day Volunteer in charge of Career Panel	Spring 2019
	Lucas Elementary Day Activity Leader	April 2019
	Moderator in Q & A session entitled "Career Opportunities Outside Academia" at the Midwest Women in Mathematics Symposium	April 2019
	Ford Fellows Workshop Panelist hosted by the Graduate College	August 2018
	Sonia Kovalevsky Day Volunteer in charge of Career Panel	Spring 2017
	California State University, Fresno	
	Sonia Kovalevsky Day Activity Leader	2013-2016
INVITED CONFERENCE AND SEMINAR TALKS	Flypes and Agol Cycles of 3-braids AWM Special Session on Women and Gender Minorities in Symplectic and Contact Geometry and Topology Joint Math Meetings	April 2022
	Agol cycles of flype admitting pseudo-Anosov 3-braids Distinguished Graduate Student Speaker Knots in Washington 49.5	December 2021
	Introduction to Train Tracks Department of Mathematics Colloquium Seminar California State University, Fresno	October 2021
	Agol Cycles of 3-braids Early-Career Mathematicians Lightning Talks AWM We Speak! Monthly Virtual Talks Series	September 2021
	Reproving Birman and Menasco's 3-braid Classification Theorem AMS Special Session on Topology and Geometry of 3- and 4-manifolds AMS Southeastern Sectional Meeting	March 2021
	Flype, pseudo-Anosov braids and the fractional Dehn twist coefficient AMS Special Session: Algebraic and Geometric Perspectives on Low-Dimensional Topology, I AMS/MAA Joint Math Meetings	January 2021
	Sequence of Undetectable Nonquasipositive Braids Quantum Invariants and Low-Dimensional Topology Group Nearly Carbon Neutral Geometric Topology Conference (NCNGT)	June 2020
	Positivity of Knots Underrepresented Students in Topology and Algebra Research Symposium (USTARS)	April 2020
	Extending the Definition of the Fractional Dehn Twist Coefficient Jakobsen Conference	March 2018
	A Study of Bouquet Pseudograph Diagrams AMS/MAA Joint Math Meetings	January 2016
	From Knot Theory to Pseudographs AMS Fall Western Sectional Meeting	October 2015

From Knot Theory to Pseudoknots Graduate Research and Create Activities Symposium	May 2015
ShhhCan You Keep a Secret? STEM Conference	April 2015
Invariants for Spatial Graphs Pacific Coast Undergraduate Conference	March 2014
$A\ Yang-Baxter\ model\ for\ specializations\ of\ the\ Kauffman\ polynomial\ AMS/MAA\ Joint\ Math\ Meetings$	January 2014
Embedding Cycles in Projective Spaces Plenary Session Central California Research Symposium	April 2013
Invariants for Spatial Graphs (with J. Elder) Pacific Coast Undergraduate Conference	March 2013
Embedding Cycles in Projective Spaces (with D. Heywood) Pacific Coast Undergraduate Conference	March 2013