Sherilyn Tamagawa

610 North College Avenue, Claremont, CA 91711 sherilyn.tamagawa@pomona.edu Office phone: 909-607-8012

Education		
Ph.D. Mathematics	June 2019	
with Certificate in College and University Teaching		
University of California, Santa Barbara		
M.A. Mathematics	June 2016	
University of California, Santa Barbara		
B.A. Mathematics, honors	May 2014	
Scripps College		

Relevant Employment

Pomona College	Fall 2021 - present
Visiting Assistant Professor of Mathematics	
Davidson College	Fall 2019 - Spring 2021
Visiting Assistant Professor of Mathematics and Computer Science	
Scripps College	Fall 2017
Instructor	
University of California, Santa Barbara	
Teaching Associate	Summer 2018, 2016
Lead Teaching Assistant	Fall 2018
Teaching Assistant	Fall 2014 - Spring 2019

Publications

- P. Graves, S. Nelson, and S. Tamagawa, Niebrzydowski algebras and trivalent spatial graphs, *Internat. J. Math.* 29 (2018), no. 14, 1850102, 16 pp. [arXiv:1805.00104]
- S. Nelson and S. Tamagawa, Quotient quandles and the fundamental Latin Alexander quandle, New York J. Math. 22 (2016), 251-263. [arXiv:1404.6008]

Preprints

- 1. T. Holmes, D. Kitsuwa, J.B. Nation, and S. Tamagawa, Lattices of atomic theories in languages without equality. In K. Adaricheva, J. Hyndman, J.B. Nation, J.N. Nishida, *A Primer of Subquasivariety Lattices* (pp. 275-280). Springer Canadian Math. Soc.
- 2. N. Scherich and S. Tamagawa, An invariant of virtual trivalent spatial graphs. [arXiv:2104.03830]

In Preparation

- 1. S. Tamagawa, A new approach to the B_2 spider.
- 2. S. Tamagawa, The Infinitesimal Alexander Module and welded knots.

Professional Development

MAA Project NExT	
AMS Mathematics Research Communities	
Quantum Symmetries: Subfactors and Fusion Categories	

Silver 2019 2018

Teaching Experience

Courses Taught at Pomona College	
Calculus I (Math 30)	Fall 2021
Calculus III (Math 32)	Fall 2021
Courses Taught at Davidson College	
History of Mathematics (MAT 380)	Spring 2021
Sets and Proofs (MAT 230)	Spring 2021
Discrete Structures (CSC 220)	Fall 2020
Linear Algebra (MAT 150)	Fall 2020
Topology (MAT 360)	Spring 2020
Linear Algebra (MAT 150)	Spring 2020
Calculus I and Modeling (MAT 112)	Fall 2019
Sets and Proofs (MAT 230)	Fall 2019
Courses Taught at Scripps College	
Calculus I (Math 30)	Fall 2017
Courses Taught at UC Santa Barbara	
Calculus for Life and Social Sciences II (Math 34B)	Summer 2018
Calculus and Applications II (Math 3B)	Summer 2016
Courses at UC Santa Barbara (Teaching Assistant)	
Advanced Linear Algebra	Spring 2019
Advanced Linear Algebra	Winter 2019
Transition to Higher Mathematics	Fall 2018
Calculus for Life and Social Sciences II	Spring 2018
Calculus for Life and Social Sciences I	Winter 2018
Introduction to Advanced Linear Algebra	Fall 2017
Linear Algebra	Summer 2017
Introduction to Advanced Linear Algebra	Winter 2017
Introduction to Advanced Linear Algebra	Fall 2016
Calculus and Applications I	Fall 2015
Linear Algebra	Summer 2015
Inquiry Based Differential Equations (temporary)	Winter 2015
Calculus for Life and Social Sciences I	Fall 2014
Courses at UC Santa Barbara (Reader)	
History of Mathematics	Spring 2018
Transition to Higher Mathematics	Winter 2018
History of Mathematics	Spring 2017
Transition to Higher Mathematics	Fall 2016
Transition to Higher Mathematics	Spring 2016
Kawananakoa Middle School	
Temporary Part-Time Teacher (7th Grade Math)	Summer 2013
Math Team Coach	Spring 2010
Chaminade University Summer Bridge Program	
Math and English Tutor	Summer 2012

Presentations

Research Presentations Virtual Niehrzudowski Algebras and Trivalent Spatial Graphs	January 2021
The EDCE Program: Pure and Applied talks by Women Math Warriers	January 2021
Loint Mathematics Mostings online	
The Cohush Interpretation of the B- Snider	January 2021
Werner of Color in Tonology and Algebra Joint Mathematics Mastings	January 2021
Women of Color in Topology and Algebra, Joint Mathematics Meetings	$C_{\text{resolution}} = \frac{1}{2} \left(C_{\text{OVID}} \right) $
From ACMs to IAMs: My Mathematical Research Journey	Canceled (COVID-19)
San Diego State University REU Vintual Nichandrauchi Alachura and Trinchart Craticl Chamba	I 9090
virtuai Nieorzyaowski Aigeoras ana Trivaieni Spatiai Gruphs	January 2020
Women in Topology, Joint Mathematics Meetings Denver	A
Nieorzyaowski Aigeoras and Irivalent Spatial Graphs	April 2019
Welded have and the Infinitesimal Alexander Medule	January 9010
Weidea knots and the Infinitesimal Alexander Module	January 2019
I ne EDGE Program: Pure and Applied talks by women Math Warriors,	
Joint Mathematics Meetings Baltimore	T 0010
Nieorzyaowski Algeoras and Irivalent Spatial Graphs	January 2019
Low-Dimensional Manifolds, Joint Mathematics Meetings Baltimore	A '1 0010
w-Knots and the Infinitesimal Alexander Module	April 2018
USTARS parallel sessions, Reed College	I 1 0017
w-Knots and the Infinitesimal Alexander Module	July 2017
Math Summer Research Program for Undergradutes, UC Santa Barbara	A 1.0017
Quanales of Virtual Knots	April 2017
USTARS parallel sessions, Amherst College	N 1 0010
Ine Catenary Degree: A Combinatorial Non-Unique Factorization Invariant	November 2016
Discrete Geometry and Combinatorics Seminar, UC Santa Barbara	
Quanales of Virtual Knots	March 2015
Algebra and Combinatorics Seminar, Texas A&M University	
The Algebra of Knote and Their Eviende	March 2021
Danny Callera Mathematics Cominan	March 2021
Knote Orege Mathematics Seminar	Manah 9010
Moth/CS Coffee Devideon College	March 2019
Quandles and Existende	Amuil 2019
Quanties and Friends	April 2018
Mathematical Durida	Amril 2017
Mathematical Braias	April 2017
The Frankrick Constant of 2 Marifelds	E-h 9017
WiNG-Col Comparison Indianation of Southand Colifornia	February 2017
WiMSoCal Symposium, University of Southern California	
Understanding Academic Dishonestu	April 2017
Teaching and Learning Seminar UC Santa Barbara	p=011
Computer Programming Assignments	October 2016
Teaching and Learning Seminar, UC Santa Barbara	0000001 2010
Posters	
Quandles of Virtual Knots	January 2015
Undergraduate Poster Session, Joint Mathematics Meetings San Antonio	
Quandles of Virtual Knots	May 2014
Scripps College Capstone Day	
Exploring the Catenary Degree of Artihmetical Congruence Monoids	January 2014
Undergraduate Poster Session, Joint Mathematics Meetings Baltimore	
Exploring the Catenary Degree of Arithmetical Congruence Monoids	September 2013
Student Poster Session, Claremont Colleges Consortium	

Conference Participation

Mathfest, virtual	August 2021
USTARS, virtual	April 2021
Joint Mathematics Meetings, virtual	January 2021
NE Conference for Undergrad. Women in Math., U. of Nebraska-Lincoln	January 2020
Joint Mathematics Meetings, Denver	January 2020
MathFest, Cincinnati	August 2019
USTARS, Iowa State University	April 2019
Joint Mathematics Meetings, Baltimore	January 2019
Biology and Mathematics in the Bay Area (BaMBA), Stanford University	November 2018
MAA Southern California-Nevada Section Meeting, Scripps College	October 2018
USTARS, Reed College	April 2018
Joint Mathematics Meetings, San Diego	January 2018
USTARS, Amherst College	April 2017
WiMSoCal, University of Southern California	March 2017
Joint Mathematics Meetings, Atlanta	January 2017
Joint Mathematics Meetings, Seattle	January 2016
Joint Mathematics Meetings, San Antonio	January 2015
Joint Mathematics Meetings, Baltimore	January 2014
AMS Fall Western Sectional Meeting, UC Riverside	November 2013
SACNAS, San Antonio	October 2013

Service

Academic Service Conference Co-Organizer USTARS, Fall 2019 - present Co-advisor for Women in Mathematics Group Davidson College, Fall 2019 - present Peer Referee SIAM Journal on Discrete Mathematics Journal of Knot Theory and Its Ramifications Hypatian Seminar Co-Organizer UC Santa Barbara, Fall 2014 - Spring 2019 Directed Reading Program Mentor UC Santa Barbara, Winter 2019 - Spring 2019 Workshop Leader for "Leading Diverse STEM Discussion Sections" UC Santa Barbara Campus-Wide TA Orientation, September 2018 Graduate Program Representative for UCSB Mathematics Department Joint Mathematics Meetings Graduate School Fair, 2015-2019 Graduate Student Peer Mentor UC Santa Barbara, Fall 2015-2019 **Panels** Graduate School and Beyond Association for Women in Mathematics, UC Santa Barbara, April 2018 Graduate Student Panel Math 94, UC Santa Barbara, November 2016 Experienced TA Panel TA Training, UC Santa Barbara, September 2016 Outreach Math Activity for Girls Inc. UC Santa Barbara, March 2017

Non-Academic Service

Consultant on *The Angry Birds Movie 2* 2018-2019
Honolulu Sertoma Club member September 2016-present
Honolulu Sertoma Club VP of Membership July 2017 - August 2018

Awards and Recognitions

Research Awards and Honors

Distinguished Graduate Student Speaker, USTARS 2019

Mathematics Competitions

Putnam 2013 Score: 19 Putnam 2012 Score: 21 Putnam 2011 Score: 1 Putnam 2010 Score: 10