Noelle Sawyer

Contact	email: sawyern@southwestern.edu website: noellesawyer.com	
Employment	Southwestern University, Georgetown, TX Assistant Professor of Mathematics	August 2020 - Present
Education	Wesleyan University, Middletown, CT Ph.D. in Mathematics Advisor: David Constantine Thesis: Partial marked length spectrum rigidity of negatively cu	May 2020 rved surfaces
	Vassar College, Poughkeepsie, NY B.A. in Mathematics and History	May 2014
Research Interests	My research interests are in dynamics, geometry and topology. I am particularly inter- ested in marked length spectrum rigidity, thermodynamic formalism, and Riemannian geometry.	
Papers	 Unique equilibrium states for geodesic flows on flat surfaces with singularities. With Benjamin Call, David Constantine, Alena Erchenko, and Grace Work Appeared in International Mathematics Research Notices, September 2022. Phase transitions for the geodesic flow of a rank one surface with nonpositive curvature. With Keith Burns, Jérôme Buzzi, and Todd Fisher Appeared in Dynamical Systems, June 2021. 	
Math Community	Big Ideas in Dynamics An AIM Research Community, co-organized with Benjamin Call A Word Problem A special session at Science Writers, co-organized with Sam Hansen, Kenna Hughes-Castleberry , and Sadie Witkowski Underrepresented Students in Topology and Algebra Research Symposium (USTARS)	Spring + Fall 2023 September 2023
		March 2023
	Invited Faculty Speaker Math Equity Forum	October 2022
	University of Toronto Austin Math Teachers' Circle	March 2022
	University of Texas at Austin. Hidden Norms Webinar	February 2022
	Semi-Norm Speaker (Breaking Norms). Black in Math Week Co-organized with Marissa Loving, Candice Price, Dwight Willia Michole Enjoli, and more	November 2020 ams II,

	Midwest Dynamical Systems Early Career Conference Co-organized with Ben Call, Ivan Chio, and Kitty Yang	November 2020
Media	A Call to Defend Bodily Autonomy in the Math Community Letter to the Editor in the American Mathematical Society Notices	March 2023
	Modern Mathematics Confronts its White, Patriarchal Past An article in Scientific American	August 2021
	Written By Rachel Crowell Who Will Celebrate You?	June 2021
	A blog post on the AMS inclusion/exclusion blog	June 2021
	The First Black in Math Twitter Event	December 2020
	Appeared in MAA Math Values Blog and the NAM newsletter	December 2020
	Authored with Omayra Ortega.	
	#BlackInMathWeek	November 2020
	An episode of the podcast Relatively Prime Hosted with Michole Enjoli	
Invited Talks	South Central Topology Conference	October 2023
	Columbia University Geometry Seminar	April 2023
	Columbia University Undergraduate Colloquium	April 2023
	University of Houston Dynamics Seminar	March 2023
	A Dynamical Weekend at Wesleyan	March 2023
	Wesleyan University.	
	George Mason University Geometry Seminar	November 2022
	Women in Groups, Geometry, and Dynamics	June 2022
	Special Session. AWM Research Symposium. University of Minnesota.	
	Smith College Brown Bag Series	April 2022.
	The College of New Jersey Colloquium	March 2022
	OURFA ² M ² Our Stories	Decmber 2021
	Wake Forest University Colloquium	November 2021
	Rice University Topology Seminar	April 2021
	Indiana University Geometry Seminar	March 2021
	Bryn Mawr Distressing Math Collective	March 2021
	University of Washington Rainwater Seminar	February 2021
	Cal State East Bay Colloquium	January 2021
	Women of Color in Topology and Algebra	January 2021
	AMS-AWM Special Session. Joint Math Meetings. Boston College Dynamics Seminar	October 2020
	Graduate Student Online Anything Topology Seminar	April 2020
	University of Virginia Geometry Seminar	February 2020
	Fractal Geometry, Dynamics, and Applications	January 2020
	AMS Special Session. Joint Math Meetings. Denver.	January 2020
	Ohio State University Topology Seminar	November 2019
	Yale University Geometry and Topology Seminar	September 2019
	Midwest Dynamical Systems Early Career Conference Ohio State University.	May 2019
	University of Hartford Undergraduate Colloquium	April 2019
	Statistical and Geometrical Properties of Dynamical Systems AMS Special Session San Francisco State University.	October 2018
Contributed	Talk Math with Your Friends	July 2020

TalksPoster Presentations by Women Graduate StudentsJanuary 2020

	AWM Workshop. Joint Math Meetings. Denver.	
	Graduate Student Conference in Algebra, Geometry	June 2019
	and Topology	
	Temple University. Area and partial length spectrum data.	
	Graduate Student Topology and Geometry Conferen	ce March 2019
	UIUC. Area and partial length spectrum data.	
	Graduate Student Seminar	
	Wesleyan University.	
	- Ends of groups.	November 2019
	- Building ε -dense closed geodesics.	March 2019
	- Fun with discrete geometry and polygonal curvature.	September 2018
	- Geodesic currents and the boundary at infinity.	April 2018
	- It's Chaotic: an introduction to topological entropy.	October 2017
	- Hadamard's Theorem.	March 2017
	- Power indices and the upcoming election.	February 2016
	Special Preliminary Examination.	October 2017
	Wesleyan University. The specification property and closed	
	orbit measures.	
Teaching	Southwestern University	
8	Modern Calculus I	
	Topology	
	Introduction to Statistics	
	Real Analysis	
	New Experiences in Research Design	
	Algebraic Structures	
	EQUIP 2022 and 2023	
	Instructor, Wesleyan University	
	Elements of Calculus Part I	Fall 2019
	Elements of Calculus Part II	Spring 2018
	Introductory Calculus II	Spring 2017
	-	Sping 2011
	Graduate Teaching Assistant, Wesleyan University	а : осоо
	Discrete Math	Spring 2020
	Differential Equations	Spring 2019 Fall 2018 and Spring 2016
	Math Workshop Vectors and Matrices	Fall 2018 and Spring 2016
	Vectors and Matrices	Fall 2017
	Combinatorics Calculus I, Part II	Fall 2016 Fall 2015
	Calculus I, Part II	
	Multivariable Calculus	Spring 2015 Fall 2014
		1 all 2014
	Teaching Assistant,	
	Wesleyan Center for Prison Education	
	Intermediate Algebra	Fall 2016
	Summer School Instructor,	
	St. John's College, New Providence, The Bahamas	
	Seventh Grade Math June 2	2014, 2013, 2011, and 2010.
	Head Supplemental Instruction Leader,	
	Quantitative Reasoning Center, Vassar College	
	Single Variable Calculus II	Spring 2014
	Single Variable Calculus I	Fall 2013
	Supplemental Instruction Leader,	

	Quantitative Reasoning Center, Vassar College Single Variable Calculus II Single Variable Calculus I	Spring 2013 Fall 2012
Mentoring	Honors Thesis Supervision Orbits on Translation Surfaces: Introducing Barriers and Game-Building	Fall 2022 - Spring 2023
	with Rowan Via Independent Study <i>Math Communication</i> with Emily Thompson	Spring 2022
	Mentor at Topology Students Workshop Georgia Institute of Technology Directed Reading Program, Wesleyan University	July 2020
	Discrete Geometry Hyperbolic Geometry	Spring 2019 Fall 2018
Other Service	Diversity, Equity, Inclusion and Belonging Task H Southwestern University	Force Fall 2021- Present
	Publicity and Publication Committee National Association of Mathematicians.	August 2019 - August 2021
	Directed Reading Program Committee Wesleyan University.	September 2018 - May 2020
	Co-founder and Vice President AWM Grad Student Chapter, Wesleyan University.	September 2018 - May 2020
		January 2019 - December 2019
	Vice President AMS Grad Student Chapter, Wesleyan University.	September 2017 - July 2019
	Career Panel Beyond the Binary conference, University of Hartford.	April 2019
	Editorial Board MAD Pages, National Association of Mathematicians.	June 2018 - January 2019
	Graduate Life After Vassar Panel LAVA and AWM, Vassar College.	September 2018
	Graduate School Panel Physics and Math Club, Montclair State University.	February 2018
	Graduate School Panel McNair Program, Wesleyan University.	October 2017
	Graduate Student Working Group Wesleyan University.	July 2016 - June 2017
	Treasurer Graduate Student Association, Wesleyan University.	July 2015 - June 2016
	Speaker Life After Vassar by LAVA and AWM, Vassar College.	February 2016
	Co-Chair Relay for Life Committee, Vassar College.	Spring 2014
Conferences & Workshops Attended	MAA Mathfest Flexibility and rigidity in dynamical systems	August 2022 March 2022
	Simons Center for Geometry and Physics. Stony Brook, MAA Mathfest	New York. August 2021

Joint Math Meetings Paradigms: Diversity in Graduate Mathematical Science Mastery Grading Conference Joint Math Meetings	January 2021 November 2020 June 2020 January 2020
Denver, Colorado. Workshop in Dynamical Systems and Related Topics	Sept 2019, Oct 2018
Pennsylvania State University. Women in Mathematics in New England	September 2017-2019
Smith College. AIM Workshop on Equilibrium States of Dynamical	July 2019
Systems Arising from Geometry. American Institute of Mathematics.	
Graduate Student Conference in Algebra, Geometry and Topology.	June 2017, 2019
Temple University. Midwest Dynamical Systems Early Career Conference	May 2019
Ohio State University. Graduate Student Topology and Geometry Conference	March 2019
University of Illinois at Urbana Champagne. Midwest/McGehee Dynamical Systems Conference	November 2018
University of Minnesota.	
AMS Fall Western Sectional Meeting San Francisco State University.	October 2018
Northeast Analysis Network Conference University at Albany SUNY.	September 2018
Topology Students Workshop Georgia Institute of Technology.	June 2018
Séminaire de Mathématiques Supérieures 2017 Contemporary Dynamical Systems. Université de Montréal.	July 2017
Graduate Student Topology and Geometry Conference Michigan State University.	April 2017