Kaylee Weatherspoon

Website: https://skweatherspoon.github.io/

Linkedin: https://www.linkedin.com/in/kaylee-weatherspoon

EDUCATION

New Brunswick, NJ Rutgers University Ph.D. in Mathematics August 2023-Present

University of South Carolina Honors College

B.S. with Distinction in Mathematics, Leadership Distinction in Research, Minors: Chemistry, French Aug 2019 - May 2023

Budapest Semesters in Mathematics Budapest, Hungary Study Abroad Jan 2022 - May 2022

Papers

Four-regular Graphs with Extremal Rigidity Properties Discrete Mathematics, published, 2023

joint with Prof. Tibor Jordán, Henry Simmons, Zeyu Zheng, Robin Huang

A Generalization of Szlam's Lemma

joint with Amelia Shapiro, Alan Li

Research Experience & Employment

University of South Carolina Department of Mathematics Columbia, SC Jan 2023-May 2023

Grader, Honors Discrete Math II

Yale University Department of Mathematics New Haven, CT

SUMRY NSF-REU in Discrete Geometry

Columbia, SC University of South Carolina Department of Mathematics Jan 2021-Present

Honors College Research Grant, Magellan Grant Researcher

Budapest Semesters in Mathematics Research Group Budapest, Hungary Jan 2022-May 2022

Member of Research Group in Rigidity Theory

University of South Carolina Department of Mathematics Columbia, SC

Grader, Honors Discrete Math I

Auburn University Department of Mathematics Auburn, AL Jun 2021-Aug 2021

NSF-REU in Discrete Mathematics

University of South Carolina Student Success Center Columbia, SC Tutor: Math 111-500s, Chemistry up to Organic, French 100s-300s Jan 2020-Present

Mathnasium-The Math Learning Center Greensboro, NC

Tutor: Kindergarten to Calculus May 2018-Aug 2019

SUMMER SCHOOLS

The Erdős Center of the Rényi Institute: Discrete and Convex Geometry Budapest, Hungary

Graph Structure and Geometry August 2023 Princeton, NJ

Women and Mathematics at the Institute for Advanced Study

Patterns in Integers

Conference & Workshops Attended

54th SEI Conference on Combinatorics, Graph Theory, and Computing

non-speaking attendance

JMM PME Undergraduate Paper Session

Four-Regular Graphs with Extremal Rigidity Properties

UMS Poster Session at U-Illinois Chicago

Four-Regular Graphs with Extremal Rigidity Properties

GROW at Duke

non-speaking attendance

Young Mathematicians Conference at The Ohio State University

Four-Regular Graphs with Extremal Rigidity Properties

Columbus, OH

Durham, NC Oct 2022

Boca Raton, FL

Email: skw4@email.sc.edu

Mobile: +1-336-482-6401

Columbia, SC

Geombinatorics, published, 2022

May 2022- July 2022

Aug 2021-Dec 2021

Aug 2022

May 2023

Mar 2023

Jan 2023

Nov 2022

Boston, MA

Chicago, IL

	Budapest Semesters in Mathematics Colloquium	Budapest, Hungary	
	Four-Regular Graphs with Extremal Rigidity Properties Round the World Relay in Combinatorics	Feb 2022, May 2022 Online	
	non-speaking attendance	June 2021	
	Combinatorial and Additive Number Theory (CANT) Workshop (Invited Talk) Characterizing Finite, Separable, Edge-maximal Unit Distance Graphs	Online <i>May 2021</i>	
	MSRI Celebration of Women in Mathematics	Online	
	non-speaking attendance Pi Mu Epsilon Regional Conference	$May\ 2021$ Online	
	Characterizing Finite, Separable, Edge-maximal Unit Distance Graphs	April 2021	
	Discover UofSC Poster Session	Online	
	Chromatic Number of the Plane Restricted to Disks Workshop on Euclidean Ramsey Theory: dedicated to the memory of Ron Graham	$\begin{array}{c} April\ 2021 \\ \text{Online} \end{array}$	
	non-speaking attendance JMM Undergraduate Poster Session	March 2021 Online	
	Chromatic Number of the Plane Restricted to Disks	Jan 2021	
	Guilford College Department of Chemistry Colloquium	Greensboro, NC	
	Chemiluminescent Detection of Metal Ions in Water	$April\ 2019$	
	Outreach & Engagement		
	Rutgers Undergraduate Directed Reading Program	Piscataway, NJ	
	Mentor	February 2024-Present	
	Prison Mathematics Project	Online	
	Mentor	January 2024-Present	
	Math Department Coffee Hour	Piscataway, NJ	
	Co-Coordinator	September 2023-Present	
	Yale NSF-REU DEI Seminar Co-Chair of weekly Diversity, Equity, and Inclusion Seminar	New Haven, CT May 2022- July 2022	
	UofSC Inaugural Top Scholar Seminar Outreach Talk Presenter: "Collaborative Problem Solving through Open Questions in Mathematics"	Columbia, SC October 2021	
	Mungo Undergraduate Teaching Award Committee Undergraduate Evaluator	Columbia, SC March 2021-April 2021	
	South Carolina High School Math Competition Volunteer	Columbia, SC January 2021	
	Pi Mu Epsilon Mathematics Honors Society	Columbia, SC	
	Member	Fall 2019-Present	
	Association of Women in Mathematics	Columbia, SC	
	Member	Fall 2019-Present	
	Honors & Awards		
	UofSC Outstanding Senior in Mathematics	2023	
	Phi Beta Kappa Academic Honor Society	2022	
	inducted into the nation's oldest and most prestigious honor society for excellence in the liberal arts and		
	McNair Scholar	2019-2023	
	awarded an academic full-ride scholarship as part of the USC Honors College Top Scholar program		
	USC Victor W. Laurie Undergraduate Research Scholarship	2020-2021	
won as a sophomore the math department's top prize for undergraduate research (typically reserved for upperclassmen)			
	USC Department of Mathematics Markham Scholarship awarded a departmental scholarship for excellence in mathematics	2022-2023	
	Magellan Research Scholarship	2021	
	awarded a year-long grant to pursue faculty-mentored research		
	USC Honors College Research Grant	2022-2023	
	awarded a year-long grant to pursue faculty-mentored research		
	National Merit Scholar	2019	
	recognition for concerns achievement and promise within a national pool of candidates		

recognized for scholarly achievement and promise within a national pool of candidates