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

Email: skw4@email.sc.edu

Mobile: +1-336-482-6401

Columbia, SC

Geombinatorics, published

Aug 2021-Dec 2021

Boca Raton, FL

Boston, MA

Chicago, IL

Durham, NC Oct 2022

Jan 2023

Nov 2022

**Budapest Semesters in Mathematics** Budapest, Hungary

Study Abroad Jan 2022 - May 2022

Papers

Four-regular Graphs with Extremal Rigidity Properties Discrete Mathematics, accepted

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

Grader, Honors Discrete Math II Jan 2023-May 2023

Yale University Department of Mathematics New Haven, CT

SUMRY NSF-REU in Discrete Geometry May 2022- July 2022

Columbia, SC University of South Carolina Department of Mathematics Honors College Research Grant, Magellan Grant Researcher Jan 2021-Present

Budapest Semesters in Mathematics Research Group Budapest, Hungary

Member of Research Group in Rigidity Theory Jan 2022-May 2022

University of South Carolina Department of Mathematics Columbia, SC

Grader, Honors Discrete Math I Auburn University Department of Mathematics Auburn, AL

NSF-REU in Discrete Mathematics Jun 2021-Aug 2021

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 May 2023

Conference & Workshops Attended

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

non-speaking attendance Mar 2023

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

Columbus, OH

Four-Regular Graphs with Extremal Rigidity Properties Aug 2022

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