Kaylee Weatherspoon

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EDUCATION

University of South Carolina Honors College — Columbia, SC
B.S. in Mathematics, Minors: Chemistry, French — *Aug 2019 - May 2023*
Recent Courses: Graduate Abstract Algebra, Graduate Discrete Math, Discrete Optimization, Foundations of Network Science, Number Theory

Budapest Semesters in Mathematics — Budapest, Hungary
Study Abroad — *Jan 2022 - May 2022*
Courses: Discrete and Convex Geometry, Measure Theory, Mathematical Problem Solving, Research, Combinatorics of Set Systems

PAPERS

Four-regular Graphs with Extremal Rigidity Properties — *Discrete Mathematics*, submitted
joint with Prof. Tibor Jordán, Henry Simmons, Zeyu Zheng, Robin Huang

A Generalization of Szlam's Lemma — *Geombinatorics*, published
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*

University of South Carolina Department of Mathematics — Columbia, SC
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 — *Aug 2021-Dec 2021*

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*

Women and Mathematics at the Institute for Advanced Study — Princeton, NJ
Patterns in Integers — *May 2023*

CONFERENCE & WORKSHOPS ATTENDED

JMM PME Undergraduate Paper Session — Boston, MA
Four-Regular Graphs with Extremal Rigidity Properties — *Jan 2023*

UMS Poster Session at U-Illinois Chicago — Chicago, IL
Four-Regular Graphs with Extremal Rigidity Properties — *Nov 2022*

GROW at Duke — Durham, NC
non-speaking attendance — *Oct 2022*

Young Mathematicians Conference at The Ohio State University — Columbus, OH
Four-Regular Graphs with Extremal Rigidity Properties — *Aug 2022*

Budapest Semesters in Mathematics Colloquium — Budapest, Hungary
Four-Regular Graphs with Extremal Rigidity Properties — *Feb 2022, May 2022*

Round the World Relay in Combinatorics — Online
non-speaking attendance — *June 2021*

Combinatorial and Additive Number Theory (CANT) Workshop (Invited Talk)	Online
Characterizing Finite, Separable, Edge-maximal Unit Distance Graphs	*May 2021*
MSRI Celebration of Women in Mathematics	Online
non-speaking attendance	*May 2021*
Pi Mu Epsilon Regional Conference	Online
Characterizing Finite, Separable, Edge-maximal Unit Distance Graphs	*April 2021*
Discover UofSC Poster Session	Online
Chromatic Number of the Plane Restricted to Disks	*April 2021*
Workshop on Euclidean Ramsey Theory: dedicated to the memory of Ron Graham	Online
non-speaking attendance	*March 2021*
JMM Undergraduate Poster Session	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

Yale NSF-REU DEI Seminar	New Haven, CT
Co-Chair of weekly Diversity, Equity, and Inclusion Seminar	*May 2022- July 2022*
UofSC Inaugural Top Scholar Seminar Outreach Talk	Columbia, SC
Presenter: "Collaborative Problem Solving through Open Questions in Mathematics"	*October 2021*
Mungo Undergraduate Teaching Award Committee	Columbia, SC
Undergraduate Evaluator	*March 2021-April 2021*
South Carolina High School Math Competition	Columbia, SC
Volunteer	*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

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 sciences	
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	2022-2023
awarded a departmental scholarship for excellence in mathematics	
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
recognized for scholarly achievement and promise within a national pool of candidates	