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

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 — *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*

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