# Catherine Kenyon (she/her)

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**Ambitions**

I am a qualitative and mixed methods researcher seeking to apply my skills to solve problems related to consumer and company needs.

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**Education**

**Engineering and Science Education, Ph.D.** Clemson University, *2023*
*Advisor: Dr. Lisa C. Benson*

**Mathematical and Statistical Sciences, M.S.** Clemson University, *2019*
*Advisor: Dr. Neil J. Calkin*

**Mathematical and Statistical Sciences, B.S.** Clemson University, *2017*
*Emphasis: Applied and Computational Mathematics*

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**Experience**

Clemson University Calculus Course Coordinator *2021 - Present*

- coordinated a team of multiple instructors across two Calculus I courses
- created course content, course structure, schedules, and assessments
- mediated communication between instructors and administration

Clemson University Mathematics Lecturer *2020 - Present*

- taught Calculus courses at an R1 university
- experienced teaching in in-person, online, and hybrid environments

Graduate Student Engineering Education Researcher *2019 - Present*

- conducted an independent mixed methods dissertation study
- collected, analyzed, and interpreted quantitative and qualitative data
- mentored research group members new to qualitative methods

Graduate Student Mathematics Researcher *2017 - 2019*

- wrote and presented a masters thesis in combinatorics
- worked on combinatorial and computational projects outside thesis

Savannah River Remediation Intern *Summer 2014*

- worked with engineers and geologists in Closure and Waste Disposal
- created Excel macros to expedite process of analysis of groundwater

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**Core Skills**

qualitative research
mixed methods research
survey design and development
focus groups and interviews
strong organizational skills
independent learning skills
strong writing and editing skills
leadership in a changing environment

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**Computational Skills**

nVivo
Qualtrics
RStudio
MATLAB
LaTeX
Microsoft Suite

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**Publications**

**Kenyon, C.M.**, Benson, L.C., Bridges, W.C. (2022). First-Year Engineering Student Perceptions of Calculus Exams and Future-Oriented Motivation. *American Society of Engineering Education Annual Conference and Exposition 2022*

Calkin, N.J., Davis, K., Haithcock, E., **Kenyon, C.M.**, Wu, S. (2021). What Newton Might have Known: Experimental Mathematics in the Classroom. *American Mathematical Monthly*

Bridges, W.C., Calkin, N.J., **Kenyon, C.M.**, Saltzman, M.J. (2020). Lognormal Distributions: What Not to Expect When You're Expecting. *Communications in Statistics*

**Notable Presentations**

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| ASEE Annual Conference and Exposition | *June 2022* |
| Virginia Tech Engineering Education Seminar | *February 2022* |
| Tennessee STEM Education Research Conference (*Poster*) | *January 2020* |
| Clemson University Math Club Talk | *March 2019* |
| Southeastern Conference for Undergraduate Women in Math | *November 2016* |

**Leadership & Membership**

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| American Society of Engineering Education (ASEE) Member | *2022 - present* |
| American Women in Mathematics (AWM) Member | *2017 - present* |
| American Women in Mathematics (AWM) Vice President (*Clemson Chapter*) | *2018 - 2019* |
| American Mathematics Society (AMS) Member | *2017 - 2019* |

**Workshops**

AERA: Three Approaches to Qualitative Data Analysis
*with Johnny Saldaña*

Interpretative Phenomenological Analysis to Study Psychological Experience
*with Dr. James Huff*

**Certifications**

Group 1 Investigators Conducting Social and Behavioral Science Research (SBR)
Social and Behavioral Responsible Conduct of Research Course 1 (RCR)