

**E. Miller Christen**  
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## **Education**

**University of South Carolina – Graduate School, Columbia, SC – May 2026**  
Master of Science in Statistics

**Clemson University – Honors College, Clemson, SC - May 2024**  
Bachelor of Science in Mathematical Sciences, Emphasis in Applied Mathematics  
Minor in Physics

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## **Experience**

**University of South Carolina – Department of Statistics, Columbia, SC**  
*Project, August 2025 – Present*

- Developed CvT-based model for galaxy morphological classification using JWST Advanced Deep Extragalactic Survey data

**Independent Undergraduate Research, Clemson, SC**  
2023 – 2024

- Analyzed the behavior and structure of Bounded Height Matrices of Integers (Bohemian Matrices) through SVD of eigenvalue density plots

**Association of Women in Mathematics (AWM) – Student Chapter, Clemson, SC**  
*President, 2023 – 2024, Vice President, 2022 – 2023, Treasurer, 2021 – 2022*

- Promoted the unification of minority students across the Mathematics Department
- Organized meetings/events, managed expenses/budget, recruited new members, coordinated departmental events

**Creative Inquiry – Spaceflight Mission Design, Clemson, SC**  
*Team Member, August 2022 – December 2022*

- Underwent training in the basic procedures of a rocket mission, and designed and tested a model rocket

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## **Employment**

**University of South Carolina – Department of Statistics, Columbia, SC**  
*Graduate Assistant, August 2024 – Present*

- Lecturer and lab instructor for Elementary Statistics (STAT 201)

**Laboratory for Band Engineering of Quantum Systems (LaBEQ), Clemson, SC**  
*Undergraduate Researcher, August 2023 – May 2024*

- Designed and tested instrumentation for an electron radiation chamber (including a 3d printed einzel lens, UHV cryocooler, and cold finger shield)

**Clemson University – Department of Mathematical and Statistical Sciences, Clemson, SC**  
*Grader, August 2023 – December 2023*

**Notre Dame Physics REU, Notre Dame, IN**  
*Participant, 2023*

- Improved modeling of half-life curves through data analysis of  $Cl^{33}$  in the Nuclear Science Laboratory

**Mathnasium Learning Centers, Charleston, SC**  
*Instructor, May 2022 – January 2023*

- On-demand tutoring in mathematics for K-12

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### **Conferences**

**Math For All Satellite Conference, Clemson, SC**  
April 2024  
*Poster, “Images of BoHEMI”*

**American Physical Society (APS) Meeting, Minneapolis, MN**  
March 2024  
*Poster, “Effect of Electron Irradiation on the Performance of Superconducting Devices”*

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### **Service**

**Melton Observatory, Columbia, SC**  
*Volunteer, August 2025 – Present*

- Assisted with telescope setup, alignment, and basic astronomical observations during public sessions

**Math For All Conference, Clemson, SC**  
*Organizing Team Member, September 2022 – April 2024*

- Assisted in planning the schedule of events, organizing speakers and presentations, and advertising for upcoming conferences

**Clemson University – Department of Mathematical and Statistical Sciences, Clemson, SC**  
*Search Committee Member, 2023*

- Served on a faculty and student search committee for Director of the School of Mathematical and Statistical Sciences (SMSS)

**Clemson Calculus Challenge, Clemson, SC**  
April 2023

- Volunteered in proctoring and judging exams for high school teams

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### **Skills**

Python, R Studio, Jupyter, SAS, SQL, LaTeX, HTML, JavaScript, Microsoft Office, Excel, Statistical Modeling, Data Visualization, Regression Analysis, Machine Learning, Deep Learning, Astropy, PyTorch, TensorFlow