

# Madison Ross

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## EDUCATION

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**The University of Georgia**, Morehead Honors College, Athens, GA Expected: May 2025  
*Bachelor of Science in Environmental Engineering* GPA: 3.99/4.00  
*Minor in Political Science*  
Zell Miller Scholarship Recipient, Presidential Scholar

## RESEARCH AND WORK EXPERIENCE

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**UGA College of Engineering & Sustainability at UGA**, Athens, GA Jan. 2023 – May 2023  
*Researcher & Project Lead: Bioretention Cells for Microplastic Capture*

- Organized and led meetings, reviewed team members contributions for accuracy, and supported collaboration
- Utilized GIS, Microsoft Excel, and MATLAB to find, combine, and analyze dozens of previous studies
- Presented research findings at the 2023 UGA Sustainability Semester in Review

**UGA College of Engineering Urban Systems Design**, Athens, GA Aug. 2023 – Present  
*Research, Developer, Lead Engineering Student: Wastewater Treatment Plant Design*

- Researched historical, cultural, sociodemographic, environmental, and economic background of proposed site
- Determined sizing, location, impacts, and various available alternatives for proposed facility
- Introduced design and construction of wastewater plant in professional and customer-facing language

**UGA School of Public and International Affairs**, Athens, GA Aug. 2022 – Present  
*Research Assistant, Federal Judicial Database Project*

- Facilitate in compiling a comprehensive database of over 3,800 Article III federal judges for public access
- Meticulously research Senate Judicial Committee Questionnaires for utmost accuracy in data records
- Empirically examine federal judicial nominees' backgrounds and characteristics to assess influence on judicial behavior for future use in political research

**Starbucks Wade Green**, Kennesaw, GA June 2022 – Aug. 2022  
*Barista*

- Opened the cafe each morning to include preparing and organizing workspaces
- Provided stellar customer service with exceptional communication skills
- Actively participated in meetings outside working hours ensuring greatest quality of business procedures

## CAMPUS AND COMMUNITY INVOLVEMENT

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**Society of Women in Engineering**, College of Engineering Aug. 2021 - Present  
*University of Georgia*

- Work to understand and change women's current position in STEM fields through speaker events
- Provide women with safe spaces in Athens through community outreach programs raising funds and awareness

**Society of Environmental Engineers**, College of Engineering Jan. 2022 – Present  
*University of Georgia*

- Contribute to the health and environmental beautification of the UGA campus and greater Athen's area
- Attend professional development meetings with guest speakers to enhance sustainability practices and ideas

**Theta Tau Fraternity for Engineering**, College of Engineering Jan. 2022 – Present  
*University of Georgia, MOO Committee Member*

- Collaborate with students from other Southeast campuses to enrich our experiences and abilities as Engineers
- Promote professional development by connecting members with known employers and through resume reviews
- Volunteer frequently through donation drives, percentage nights, and food sales with proceeds to Athens homeless population

## SKILLS/INTERESTS

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- Proficient in MATLAB, Microsoft Excel, AutoCAD software (Revit and Inventor)
- Interested in sustainable landscape architecture, environmental justice, policy data analysis, water and air quality enhancement, international climate policy, music in mathematics, long distance running, gymnastics