

## Alexis Jackson

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### EDUCATION

May 2021 - Present | **PhD, Environmental Engineering** | University of Florida | Gainesville, FL Advisor: Dr. David Kaplan (Expected Graduation: May 2026)

May 2020 | **B.S., Biological Science** | Virginia Polytechnic Institute and State University | Blacksburg, VA

### RESEARCH EXPERIENCE

May 2021 – October 2021| **Environmental Protection Agency National Wetland Condition Assessment (EPA NWCA) Florida Crew Leader** | Gainesville, Florida | Collect soil, water, and chemistry samples while taking in-depth observations of 40+ wetlands across the state of Florida.

January 2021 – April 2021| **Research Intern** Archbold Biological Station, Venus, Florida | Conduct independent research, study many rare species of endemic vascular plants in endangered Florida scrub, and practice active fire management.

May 2019 - May 2020| **National Science Foundation Undergraduate Research Fellow (NSF REU)** | Hotchkiss Lab, Virginia Tech | Studying the effects of temperature and water level on wetland carbon cycling; collaborated on a broader NSF-funded stream ecology project.

### PRESENTATIONS

December 2024| **Jackson, A.**, D. Kaplan, K. Reiss. “Identifying drivers of wetland carbon storage across the United States” | American Geophysical Union (AGU) Annual Meeting, Washington, DC, Poster Presentation

September 2024| **Jackson, A.**, D. Kaplan, K. Reiss. “Drivers of wetland carbon storage across the United States” | Association of Environmental Engineering and Science Professors (AEESP) Distinguished Lecture Event , Gainesville, FL, Poster Presentation

June 2024| **Jackson, A.**, Cohen, M., Kaplan, D. Connecting Hydrology and Soil Organic Carbon Storage in Southeastern US Flatwoods Wetlands. of the Society of Wetland Scientists South Atlantic Chapter (SWS - SAC) Conference, Pensacola Beach, FL, Oral Presentation

April 2024| **Jackson, A.**, Cohen, M., Kaplan, D. Connecting Hydrology and Soil Organic Carbon Storage in Southeastern US Flatwoods Wetlands. Water Institute Lunch by the Water, Gainesville, FL, Oral Presentation

April 2024| **Jackson, A.**, Chin N. Machine Learning in Wetland Ecology. Society of Wetland Scientist Student Virtual Conference, Virtual, Oral.

April 2024| **Jackson, A.** DEI in Wetland Science. Society of Wetland Scientist Student Virtual Conference, Virtual, Oral.

February 2024| **Jackson, A.**, Cohen, M., Kaplan, D. Connecting Hydrology and Soil Organic Carbon Storage in Southeastern US Flatwoods Wetlands. Water Institute Symposium, Gainesville, FL, Poster.

Nov 2023| **Jackson, A.**, Reiss, K., Kaplan, D. Drivers of Wetland Soil Carbon Across the United States. Society for Freshwater Science (SFS) Southeast USA Chapter Meeting, Columbus, GA, Oral.

June 2023| **Jackson, A.**, D. Kaplan, K. Reiss | “Drivers of wetland carbon storage across the United States” | American Ecological Engineering Society Meeting (AEES) | Oral Presentation

July 2022| **Jackson, A** | [“BIMS Bites: Wetlands”](#) | Black in marine science (BIMS) | Oral Presentation

May 2022| **Jackson, A.**, D. Kaplan, K. Reiss | “Linking Patterns of Wetland Soil Carbon and Non-Native Plant Richness across the United States” | Joint Aquatic Science Meeting (JASM) | Poster Presentation

May 2021| **Jackson, A.**, E.Menges | “Above ground biomass variation along elevation gradients in Florida Scrub”| Florida Native Plant Society Conference | Oral Presentation

December 2020| **Jackson, A.**, K. Bretz, & E.R. Hotchkiss | “Sinks and Sources: The dynamic contributions of riparian wetlands to catchment carbon budgets” | American Geophysical Union Virtual Conference | Poster Presentation

## **PUBLICATIONS**

Bretz, K. A., **Jackson, A.** R., Rahman, S., Monroe, J. M., & Hotchkiss, E. R. (2021). Integrating ecosystem patch contributions to stream corridor carbon dioxide and methane fluxes. Journal of Geophysical Research: Biogeosciences, 126, e2021JG006313. <https://doi.org/10.1029/2021JG006313>

## **AWARDS**

2023 – UF Water Institute Research Award

2022- Society of Wetland Scientists Graduate Student Travel Award

2021- National Science Foundation Graduate Research Fellowship Program (NSF GRFP)

2020- Undergraduate Research Excellence Award | Office of Undergraduate Research | Virginia Tech

2019 & 2020 - SFS INSTARS Fellowship Award | Society for Freshwater Science

## **LEADERSHIP**

October 2024 - Present | **Education Chair** | Society of Wetland Scientist Student Section - Virtual | Develop a program of events, field trips, workshops, and lectures that will enhance the value of Student Section membership.

July 2024 - Present | **Ambassador** | Water Institute , Gainesville, FL| Cultivate a community, provide a platform for greater participation in Water Institute Programs and provide networking and leadership opportunities

October 2022 - Present | **Lab Manager** | Phelps Lab, Gainesville, FL| Responsible for upholding effective management, operation, and safety of laboratory personnel, chemicals, and equipment.

February 2020 – December 2020 | **Youth development staff** | Shawsville, VA | Planned, implemented and supervised youth activities in designated Boys & Girls Clubs program areas including but not limited to education, health, STEM, Arts, and leadership.

## **SERVICE**

August 1, 2024 | **Leader** | Precollegiate Education and Training (UF CPET) Summer program, Gainesville, FL | Designed and led an interactive environmental science based research and data analysis workshop for high school students

Spring 2024 and 2025 | SWS Student Virtual Conference **Workshop Committee**| Virtual | Recruited and coordinated workshop presenters and managed logistics for the inaugural virtual student conference.

February 24, 2024 | Black in Natural History Museum (BlackinNHMs) **Station Lead** | Florida Natural History, Gainesville, FL | Designed and led an interactive ecology station, engaging visitors in natural history topics at the public event

September - October 2022 | RamosStrong Motivational Group **Mentor** | Gainesville, FL | Provided academic guidance, mentorship, and support to underrepresented minority students with homework, projects, and other academic assignments.

### **SKILLS & ABILITIES**

Microsoft Office (Word, Excel and PowerPoint); R and RStudio; Python, Google Earth Pro; ArcGIS; IACUC Certification: Laboratory Safety Training (Compressed Gas Cylinder Safety, Laboratory Hazardous Waste, Ladder Safety, Personal Protective Equipment (PPE) Awareness, Portable Fire Extinguishers), Social Media and Communication (Instagram, LinkedIn, Twitter, Facebook, YouTube, Zoom)