

Cade Justad-Sandberg

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Education

Bachelor of Science in Biology With a Minor in Computer Science, December 2019

University of North Carolina Asheville (UNCA)

- Magna Cum Laude • Distinction in Biology • Distinction as Undergraduate Research Scholar

Academic Achievements

- President's List, Fall 2015
- Dean's List, Spring 2016 - Fall 2019
- Environmental Department Scholarship, Fall 2016

Competencies

- Experienced in data analysis and finding algorithmic solutions
- Competent in data visualization in various programs
- Intermediate experience with Python
- Intermediate experience with R
- Intermediate object-oriented programming in Java
- Experienced in experimental design
- Strong written, oral and visual communication skills
- Academic training in ArcMap

Professional Experience

NASA DEVELOP Geospatial Analyst, NASA Asheville, September 2019 - December 2019

- Worked with team members to increase drought modeling capacity for government ministries and universities in Honduras, Nicaragua and Guatemala
- Created a program to calculate drought indices from satellite precipitation data and display results in ArcMap
- Collaborated with end users across cultural and language barriers to adjust our tool to their needs
- Wrote detailed technical documents and tutorial process
- Conducted in-depth tutorial to teach the project partners how to use the drought monitoring tool

Co-Director of the Student Environmental Center (SEC), UNC Asheville, January 2019 - December 2019

- Managed, oversaw and proposed an annual budget of \$76,000
- Researched sustainability projects involving transportation, carbon pricing, energy use, the circular economy and student behavior
- Co-led the only student-run department on campus to advocate for sustainability at an institutional level
- Supervised 29 employees and interns
- Represented the SEC with the university administration, student body and the local community and businesses

Research Experience

Investigated the Nectar Yeast of Native Hawaiian flowers, University of Hawaii Manoa, Honolulu, HI

National Science Foundation Undergraduate Research Experiences DNA-Based Discoveries Internship, Summer 2018

- Used sequencing technology to identify nectar yeasts of native Hawaiian flowers on the island of O'ahu under the guidance of Dr. Nhu Nguyen
- Presented findings at The University of Hawaii Manoa SURE Symposium

Other Experience

- Attended multiple conferences to learn about urban planning such as: *Using Distributed Energy Resources to Enhance Community Resilience Workshop*, 2019 (Durham, NC), *Appalachian Energy Summit*, 2019 (Boone, NC), *UNC Clean Tech Conference*, 2019 (Chapel Hill, NC), *Association for the Advancement of Sustainability in Higher Education Annual Conference*, 2019 (Spokane, WA)
- Participated in a climate hack-a-thon for modeling extreme temperature events in urban areas
- Selected and served as a teaching assistant for biology programming class in R
- Led UNCA's Outdoor Leadership Training Program that culminated in a five-day student led backpacking trip
- Five years' experience as mascot for the Greensboro Grasshoppers (minor league baseball) and UNC Asheville