Lauryn N. Howlett

lauryn.howlett@colostate.edu * www.linkedin.com/in/laurynhowlett * https://laurynhowlett.github.io/

ECOSYSTEM SCIENCE AND SUSTAINABLE FOOD SYSTEMS PROFILE

Dedicated to understanding and finding solutions to sustainability issues in the agricultural sector. I am passionate about helping communities connect to nature and improving conservation efforts. My core competencies include:

- Communication and coordination between multiple stakeholders
- Ecological research, data collection, and analysis
- Data analysis and visualization using R and Excel
- Understanding of current sustainability and climate change-related issues

EDUCATION

Colorado State University (CSU), *Fort Collins, CO* Expected Fall 2024
Professional Science Master's, **Ecosystem Science and Sustainability, *Sustainable Food Systems***

Colorado State University (CSU), *Fort Collins, CO* May 2021
Bachelor of Science, **Ecosystem Science and Sustainability** **3.84 GPA**
Minor in **Sustainable Energy**
Honors program Cum Laude

SUSTAINABILITY, WATERSHED, AND FOOD SYSTEMS TEACHING & RESEARCH EXPERIENCE

Sustainability Science Teaching Assistant, *Colorado State University* January 2024 - Present

- Assist in handling the ESS 312 - Sustainability Science course at CSU
- Grade assignments, manage the grade book, and attendance for 80 students
- Effectively communicate between the professor and students

Ecological Monitoring Protocol Development Team Member, *Poudre Valley Community Farms* August – December 2023

- Worked collaboratively with peers and the stakeholder, Poudre Valley Community Farms
- Established a monitoring protocol to measure the impact of Conservation Agriculture farming practices on soil health, water use, and bird populations over time.
- Created and presented a Story Map with results and recommendations

Loch Vale Watershed Researcher, *Colorado State University* August 2020 – May 2021

- Analyzed long-term silica trends in the Loch Vale watershed in Rocky Mountain National Park (RMNP), Colorado
- Assisted in water sample collection at Loch Vale and Sky Pond
- Conducted a literature review on the importance of silica and similar trends
- Presented results in front of advisors and other faculty members

Pollinator Habitat Development Team Member, *Colorado State University* January 2021 - May 2021

- "Design and Collaborative Implementation of a Pollinator Habitat on a Colorado Front Range Farm"
- Coordinated with Wildlands Restoration Volunteers to design and execute a volunteer project where we planted seeds and bushes to create a pollinator habitat within a crop field
- Presented research at the Youth Environmental Alliance in Higher Education (YEAH) Conference at Colorado State University

PLANT, LAND, WATER, AND SOIL RESEARCH EXPERIENCE

Data Analyst Training, *Field to Market* October 2023

- Learned how to use the Fieldprint Platform
- Learned methods to analyze agricultural data

Wholesale Team Member, *Gulley Greenhouse, Fort Collins, CO* December 2022 – January 2024

- Identify and collect plants for wholesale from greenhouses in a 45-acre facility
- Improved plant identification skills

Land Stewardship Intern, *Colorado Open Lands, Lakewood, CO* June 2021 - December 2021

- Monitored 264 properties across the state of Colorado via on the ground and using satellite imagery, totaling 117,232 acres
- Edited and created new maps using ArcMap
- Gained proficiency in Lens, an online satellite mapping application and used vegetation health analysis
- Learned how to interpret the language of a conservation easement
- Communicated and scheduled meetings with landowners regarding their conservation easements

Lab Assistant, *Natural Resource Ecology Laboratory, EcoCore, Fort Collins, CO* August 2019 – May 2021

- Received and prepared NEON water samples for analysis
- Assisted in DOC, DIC, and TOC analysis

Research Fellow, *USDA NIFA REEU, CSU, Fort Collins, CO* June 2019 – July 2019

- Performed soil moisture data analysis from an existing tillage dataset in R
- Field research experience assisting a PhD student collect biomass for grassland study
- Analyzed soil health in relation to water holding capacity and different tillage practices
- Presented the results to CSU faculty

TECHNICAL AND ANALYTICAL SKILLS

- Proficiency in Microsoft Office 365, including Excel and Word processing systems
- Experience using R Studio for data analysis and visualization
- Ability to conduct fieldwork and follow proper protocol
- Ability to navigate in remote areas using GPS software and compass
- Ability to create professional written reports and present orally