Lauryn N. Howlett

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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 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

CONSERVATION, HORTICULTURE AND LAB EXPERIENCE

Gulley Greenhouse and Garden Center December 2022 - Present

- Identify and collect plants for wholesale from greenhouses in a 45-acre facility
- Prepare and package plants for shipment to nurseries in United States and Canada
- 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
- Refurbished bottles and wash other laboratory dishes
- Assisted with other laboratory practices and machine maintenance

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
- Participated in professional development workshops
- Presented the results to CSU faculty

COLLABORATIVE RESEARCH AND LEADERSHIP EXPERIENCE

Honors Senior Thesis, *Colorado State University* August 2020 – May 2021

- Mentored by Dr. Jill Baron and committee member Dr. Daniela Cusack
- 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 my thesis presentation in front of advisors and other faculty members

Senior Capstone Project, *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 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

RELEVANT COURSEWORK

Environmental Data Science Applications, *CSU, Fort Collins, CO* Fall 2023

- Introduction to R programming
- Learned how to import and manipulate open-source datasets
- Improved data analysis skills and linear modeling skills
- Created a personal website using quarto

Earth Systems Ecology Spring 2021

- Connected ecosystem principles to global systems and how they interact
- Completed writing an NSF grant proposal

Introduction to Geographic Information Systems, *CSU, Fort Collins, CO* Spring 2020

- Introduction to the history and importance of GIS
- Used ESRI ArcGIS to complete different spatial analyses

Remote sensing and Image Interpretation, *CSU, Fort Collins, CO* Fall 2020

- Learned the fundamentals of remote sensing and various applications to the natural resource field
- Improved skills on how to manage and organize data sets
- Learned about different spatial analysis techniques and tools within ArcMap

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