

# AMELIA SKINNER

Graduate Student, Colorado State University

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## EDUCATION

### COLORADO STATE UNIVERSITY (2024-CURRENT)

Fort Collins, CO | Analytical Chemistry PhD student | Advisor: Dr. Thomas Borch  
GPA: 3.88

### LOUISIANA STATE UNIVERSITY (2020-2024)

Baton Rouge, LA | B.S. in Chemistry  
GPA: 3.86  
Ogden Honors College

## HONORS AND AWARDS

### LOUISIANA STATE UNIVERSITY

- Dean's List (2021, 2022, 2024)
- President's Honor Roll (2023)
- Magna Cum Laude (2024)

## RESEARCH

**INTERESTS:** Utilizing mass spectrometric analysis to explore complex matrices like dissolved organic matter to better understand environmental systems like post-fire watersheds and carbon cycling

**SKILLS:** Solid phase extraction, Gas Chromatography-Triple Stage Quadrupole-Mass Spectrometry, metabolomics, coding proficiency in R software for data analysis, FTIR Spectrometry

### CHEMISTRY GRADUATE RESEARCH ASSISTANT

Colorado State University (Fort Collins, CO) | May 2025-Current | Dr. Thomas Borch

- Utilized mass spectrometry to conduct metabolomics on burned vegetation leachates
- Prepared environmental samples for analysis
- Implemented R, NIST MS Search 3.0, ADAP BIG, ADAP KDB, and Chromeleon software to analyze complex matrices with organic matter

### CHEMISTRY UNDERGRADUATE RESEARCH ASSISTANT

Louisiana State University (Baton Rouge, LA) | September 2022-May 2024

- Prepared samples of deep eutectic solvents
  - Computed stoichiometric conversions and other calculations for sample preparation
  - Worked in Nitrogen Regulated Glove Box
  - Analyzed samples with Fourier-Transform Infrared (FTIR) Spectroscopy
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**PRESENTATIONS**

**Colorado Biological Mass Spectrometry Society – Poster | July 2025**

Title: “Metabolomics Assessment of Burned Vegetation Leachates”

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**TEACHING AND  
MENTORSHIP**

**INTRODUCTORY CHEMISTRY TEACHING ASSISTANT**

**Colorado State University (Fort Collins, CO) | August 2024-May 2025**

- Prepared lessons and introduced chemistry topics to undergraduate students
- Supervised students conducting experiments
- Maintained safe lab practices
- Communicated with over sixty undergraduate students

**INTRODUCTORY TO BIOLOGY LAB ASSISTANT**

**Louisiana State University (Baton Rouge, LA) | September 2021-July 2022**

- Prepared curriculum lab requirements
- Secured materials for lab experiments
- Managed and maintained laboratory equipment

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**LEADERSHIP  
AND OUTREACH**

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**CHEMISTRY GRADUATE STUDENT ORGANIZATION TREASURER**

**Colorado State University (Fort Collins, CO) | May 2025 – Current**