

ZACHARY CRAMTON

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Ecosystem Science and Sustainability student with practical experience in urban infrastructure and transit planning. Proficient in data analysis, GIS, and developing reproducible workflows, seeking opportunities to apply these skills to support data-driven management of sustainable communities and regional planning.

CORE COMPETENCIES

- Programming: R, VBA, SQL, Python, MATLAB
- Spatial Tools: Spatial R Packages, ArcGIS Pro, ArcGIS Online
- Other Tools: AutoCAD, Fusion360, web design with Quarto, OpenLCA
- Technical Skills: Sensor & equipment fabrication & repair, Remote Pilot Certificate (*Jan 2026*), soil analysis

EDUCATION

B.S. Ecosystem Science and Sustainability, Colorado State University, Fort Collins, CO | GPA: 3.86 | May 2026

Dean's List: Fall 2022, Spring 2024, Fall 2024, Spring 2025

PLANNING AND OUTREACH EXPERIENCE

Bike Mechanic, CSU Central Receiving – The Spoke

Jan 2025 – Present

- Educate CSU students and staff on bike maintenance and safe operation.
- Support active transportation outreach events.
- Manage storefront inventory and complete sales for customers.
- Built and operate a bike rental maintenance database using Excel and VBA.
- Support integration of third-party apps into existing SOPs and infrastructure.

CSU Student Representative, West Elizabeth BRT Design

Aug 2023 – Present

- Advocate for design elements supporting active modes in a bus rapid transit corridor improvement project.
- Contribute student perspectives to municipal public transportation development.
- Represent for CSU student interests in city planning meetings.

Financial Officer, CSU Alternative Transportation Fee Advisory Board

Aug 2022 – Present

- Organize and facilitate an interdisciplinary board with 22 members investing in transportation programs.
- Spearhead outreach and education programs to help inform students of their transportation options.
- Allocate \$500,000 in annual student fees for active transportation programs annually.
- Manage \$1.5M+ contract between CSU Student Government and the municipal bus agency.
- Prior Board Roles: College of Engineering Representative (2022-2023), Vice Chair (2023-2024), Chair (2024-2025)

LAB EXPERIENCE

Lab Technician, CSU Soil Innovation Lab

May 2024 – Aug 2024

- Processed and analyzed soil samples from North American rangelands.
- Collected and entered data from soil core samples.
- Sieved soil samples in accordance with SOPs.

Hydrogeology Lab Technician, GeoSystems Analysis, Inc.

Jun 2022 – Aug 2023

- Conducted hydraulic conductivity and hydrometer tests on soil samples.
- Developed a refined SOP for sensor splicing, improving efficiency by over 300%.
- Assembled Campbell Scientific logger boxes and calibrated METER Group sensors.
- Fabricated custom sensors to measure flow rate, flux and column oxygenation in soil columns.
- Facilitated smooth deployments of sensors, supplies and personnel to field sites.