

Hannah Hare

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EXPERIENCE

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- Undergraduate Research Assistant**, Department of Atmospheric Chemistry
Colorado State University (CSU) Fall 2019 - Present
Supervisor: Dr. Thomas Hill
- Conduct ice spectrometer experiments to measure number of ice nucleating particles
 - Process ice spectrometer data using excel
- Undergraduate Research Assistant**, Department of Soil and Crop Sciences
Colorado State University (CSU) Spring 2018 - Present
Supervisor: Dr. Thomas Borch
- Collect soil samples for microbial analysis and to identify carbon and nitrogen content
 - Measure soil pH and soil electric conductivity
 - Run soil samples extractions to determine potassium and phosphorus content
 - Evaluate plant health by recording growth stage and other physical observations
 - Develop pesticide standards and test pesticide extraction methods
- Chemistry Outreach Coordinator**, Department of Chemistry
Colorado State University (CSU) Fall 2018 - Present
Supervisor: Benjamin Reynolds
- Serve as ambassador for CSU Chemistry Department community outreach
 - Lead science demonstrations across K-16 grade levels in collaboration with co-outreach coordinator
 - Develop and design lesson plans to align with teachers' curriculum
 - Communicate with community members and teachers to schedule science shows
 - Plan, prepare, and run CSU Halloween show utilizing 60 volunteers to host 1,200 community members
 - Collaborate with Chemistry Club to provide volunteer opportunities to members

POSTERS AND PUBLICATIONS

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- Miller, H., Dias, D., **Hare, H.**, Borton, M.A., Blotvogel, J., Danforth, C., Wrighton, K.C., Ippolito, J.A., Borch, T. Reusing Oil and Gas Produced Water for Agricultural Irrigation: Effects on Soil Health and the Soil Microbiome. *Science of the Total Environment*, 722:137888
- Hare, H.**, Borch, T. Can fracking water be treated and safely reused for agriculture? Art Exhibit: Sacrificial Lands. Carnegie Center, Fort Collins, CO. April 8-11, 2020.
- Hare, H.**, Miller, H., Dias, K., Ippolito, J., Borch, T. Irrigating wheat with treated produced water: Impacts on soil health and crop yield. Celebrate Undergraduate Research and Creativity Showcase (CURC). Colorado State University, Fort Collins, CO. April 25, 2019.
- Hare, H.**, Miller, H., Dias, K., Ippolito, J., Borch, T. Irrigating wheat with treated produced water: Impacts on soil health and crop yield. American Chemical Society National Meeting. Orange County Convention Center, Orlando, FL. April 1, 2019.

EDUCATION

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- Bachelor of Science in Chemistry, ACS Certified** Expected May 2020
Minor in Global Environmental Sustainability GPA 3.58
Colorado State University, Fort Collins, Colorado

INVOLVEMENT

Chemistry Club Member, CSU Fall 2016 - Present

- Attend weekly meetings, help run 30 associated events, and promote involvement in the club
- Attend annual American Chemical Society spring conferences: 2017, 2018, and 2019
- Help run end of the year Chemistry Department barbeque to serve chemistry students and staff
- Helped monitor and facilitate chemistry portion of regional Science Olympiad competition
- Participated in City of Loveland Annual Water Way Clean Up

Demonstration Specialist Officer, Chemistry Club, CSU Spring 2018

- Selected and presented demonstrations for member meetings, explained underlying chemistry concepts, and followed proper safety precautions while handling and disposing of hazardous chemicals

FoCo Café, Fort Collins, CO Fall 2017

- Participated in food preparation for a pay-what-you-can restaurant

SCHOLARSHIPS AND AWARDS

Western University Exchange Scholarship 2016 - 2020

CSU Chemistry Department Undergraduate Outreach Award Spring 2019

CSU College of Natural Sciences Dean's List Spring 2018 and Fall 2019

MEMBERSHIPS

Iota Sigma Pi, National Honor Society for Women in Chemistry Spring 2019 - Present

American Chemical Society Fall 2016 - Present