



Taylor Spivey

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Department of Chemical Engineering
Holewinski Research Group
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Current Position

DOE SCGSR Awardee at SSRL
Graduate Student Research Assistant
University of Colorado Boulder
Chemical Engineering

Education and Employment History

- DOE SCGSR Awardee, SSRL CoAccess Lab Nov 2020-Present
- PhD Student, Univ. of Colorado Boulder, August 2018 - Present
- Bachelor of Science Chemical Engineering, Univ. of Tennessee, May 2018
- Bachelor of Science in Education, Univ. of Tennessee, May 2018

Interests

- Research interests include the operando XAS investigation of dynamic structural and electronic changes in reactive environments for novel alloyed heterogeneous catalysts and electrocatalysts complemented by rigorous kinetic and computational studies.

Goals/Ideas for Advocacy for the User Community

- Assist APS Steering Committee to deliver highly targeted workshops for student needs regarding topics on executing XAS experiments *in situ*.
- Develop course material for long term learning outcomes regarding XAS and Scattering techniques to build and continually maintain short course learning outcomes
- Communicate the capabilities of APS-U to student users to develop next generation proposals during the shutdown period

Awards and Honors

- DOE Office of Science Graduate Student Research (SCGSR) Award, Solicitation 2019-2
 - November 2020-November 2021
 - CoAccess Lab member supervised by Dr. Simon Bare to design operando electrocatalytic XAS cells
 - Specializing in electrocatalysis of dilute alloys and their spectroscopic investigation in multiple X-ray energy regimes.
- Graduate Assistantship in Areas of National Need (GAANN) Award
 - University of Colorado Boulder Grant Administered by U.S. Dept. of Ed.
 - August 2018-November 2020