

**Shelby Galinat**  
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**Education:**

- Colorado School of Mines *Present*
  - Materials Science Graduate Program, Maughan Group
- University of Utah, Honors College *Graduation May 2022*
  - Chemistry, Atmospheric and Environmental emphasis
  - GPA: 3.99
  - Dean's List *2018 to 2022*

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**Honors:**

- NSF Graduate Research Fellowship Program Honorable Mention *2022*
- Bonner Memorial Award *2022*
- Honors in Chemistry Award *2022*
- Eccles Distinguished Scholar *2018 to 2022*
  - Full ride scholarship from the University of Utah Honors College.

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**Research Experience:**

- University of Utah Sigman Group Undergraduate Researcher *2020 to 2022*
  - Undergraduate Research Opportunities Program (UROP): *2020*  
Computed properties of cyclic poly(phthalaldehyde) derivatives to build a predictive model for depolymerization temperatures.
  - UROP: Synthesized and analyzed the solubility of *2020 to 2022*  
bipyrimidine electrolytes in acetonitrile for non-aqueous redox flow batteries (NRFBs).
  - REU: Developed conditions for a novel bipyrimidine *2021 to 2022*  
electrophotocatalyst to reduce naphthalene chloride.
  - Honors Thesis: *Bipyrimidine Solubility Modeling For Applications In Non-Aqueous Redox Flow Batteries* *2022*
    - Computationally optimized molecular geometries, collected descriptors, and evaluated preliminary models for bipyrimidine electrolytes for NRFBs.

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**Teaching Experience:**

- Organic Chemistry II TA *2021*
- Chemistry Mentor (for first year chemistry students ) *2020*
- Bud Bailey Tutor and Program Director *2019 to 2022*
  - Advanced underprivileged children's literacy and educational development through consistent reading and homework tutoring.