

C. Annie Hart
Curriculum Vitae

Education

Washington University in Saint Louis	
PhD Physical Chemistry	2023
MA Physical Chemistry	2021
Saint Louis University	
BS Chemistry	2017
BS Applied Mathematics	2017

Research Experience

Washington University In Saint Louis	
PhD Candidate in the Mabbs Lab	2019 - 2023
Graduate Research Assistant in the Mabbs Lab	2018 - 2019
Saint Louis University	
Undergraduate Research Assistant in the Bracher Lab	2015 - 2017

Teaching Experience

Teaching Assistant at Washington University in Saint Louis	
General Chemistry Lab	2017
Physical Chemistry Lab	2018
Physical Chemistry Lecture	2018
Physical Chemistry Lab	2019

Publications

- Hart, C. A., Schlimgen, A., Dao, D., Head-Marsden, K., Mabbs, R. The Overlooked Role of Excited Anion States in NiO_2^- . *J. Phys. Chem.* **160**, 044304 (2024). <https://doi.org/10.1063/5.0188066>
- Ru, B., Hart, C. A., Mabbs, R., Gozem, S., Krylov, A. I., Sanov, A. Dipole Effects in the Angular Distributions of the Sulfur Monoxide Anion. *Phys. Chem. Chem. Phys.* **24**, 23367-23381 (2022). <https://doi.org/10.1039/D2CP03337B>
- Hart, C. A., Mabbs, R. Stabilized Resonances are No Less Exciting. *Nat. Chem.* **13**, 721-722 (2021). <https://doi.org/10.1038/s41557-021-00755-6>
- Hart, C. A., Lyle, J., Spellberg, J., Krylov, A. I., Mabbs, R. Role of the Electron-Dipole Interaction in Photodetachment Angular Distributions. *The Journal of Physical Chemistry Letters.* **12** (41), 10086-10092 (2021). <https://doi.org/10.1021/acs.jpcllett.1c02882>

2. Lyle, J., Chandramoulee, S. R., Hart, C. A., Mabbs, R. Photoelectron Imaging of Anions Illustrated by 310 nm Detachment of F-. *J. Vis. Exp.* **137**, e57989 (2018).
<https://dx.doi.org/10.3791/57989>

1. Campbell, T. D., Hart, C. A., Febrian, R., Cheneler, M. L., Bracher, P. J. The Opposite Effect of K⁺ and Na⁺ on the Hydrolysis of Linear and Cyclic Dipeptides. *Tet. Lett.* **59**, 23, 2264-2267 (2018). <https://doi.org/10.1016/j.tetlet.2018.04.073>

Honors and Awards

Washington University in Saint Louis
GAANN Fellowship

2019-2021

Saint Louis University

American Institute of Chemists Outstanding Senior Award

2017

Hypercube Scholar Award

2017

SLU CAS Graduate/Undergraduate Research Collaboration Grant 2016

Group Exhibitions

2022

[Consciousness of Abstraction II](#), ARC Gallery, Chicago, IL. Juried by David Reif.

[Atmospheric Perspective](#), Intersect Arts Center, Saint Louis, MO. Curated by Sarah Bernhardt.

2023

[Visions of Form and Space](#), STL Artists' Guild, Saint Louis, MO. Juried by Brian Smith.

[Parabola 2023: Perception/Deception](#), Des Lee Gallery, Saint Louis, MO. Juried by Dryden Wells and Pete Holohan.

2024

[Field Guide](#), Intersect Arts Center, Saint Louis, MO. Curated by Sarah Bernhardt.