Stanford

Reagan Hooper

Postdoctoral Scholar, Photon Science, SLAC

Bio

PROFESSIONAL EDUCATION

- Ph.D., Yale University , Chemistry (2023)
- B.S., Kennesaw State University , Chemistry (2018)

STANFORD ADVISORS

- Kelly Gaffney, Postdoctoral Faculty Sponsor
- Amy Cordones-Hahn, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Ultrafast Population and Structural Dynamics of a Ni-Bipyridine Photoredox Catalyst Reveal a Significant Deactivation Pathway.** *The journal of physical chemistry letters*
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- **Mixed Valence {Ni2+Ni1+} Clusters as Models of Acetyl Coenzyme A Synthase Intermediates.** *Journal of the American Chemical Society*
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- **Iron(iv) alkyl complexes: electronic structure contributions to Fe-C bond homolysis and migration reactions that form N-C bonds from N2.** *Chemical science*
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- **Evaluating Diazene to N2 Interconversion at Iron-Sulfur Complexes.** *Chemistry (Weinheim an der Bergstrasse, Germany)*
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- **Engineering Band Gap and Photoconduction in Semiconducting Metal Organic Frameworks: Metal Node Effect** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
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- **Mechanism of Nitrogen-Carbon Bond Formation from Iron(IV) Disilylhydrazido Intermediates during N2 Reduction** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
  Bhutto, S. M., Hooper, R. X., Mercado, B. Q., Holland, P. L.
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- **Cobalt-Carbon Bonding in a Salen-Supported Cobalt(IV) Alkyl Complex Postulated in Oxidative MHAT Catalysis** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
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- **Assignment of Infrared-Active Combination Bands in the Vibrational Spectra of Protonated Molecular Clusters Using Driven Classical Trajectories: Application to N4H+ and N4D+** *JOURNAL OF PHYSICAL CHEMISTRY A*
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- **A stable Cerberus tris(maloNHC) and its coinage metal complexes** *CHEMICAL COMMUNICATIONS*
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