



Ryan D Ribson

Assoc Sci - Chem/UFX-ray, LCLS - Linac Coherent Light Source

Bio

BIO

Prior to my work at SLAC, I received a Bachelor of Science degree in Chemistry from the University of Rochester followed by a PhD from Caltech where my doctoral work focused on utilizing synthetic chemistry and ultrafast optical transient absorption spectroscopy to study solution phase photophysics in organic semiconductors. I joined SLAC in 2022 as a Research Associate working on applying tender X-ray spectroscopies to study sulfur chemistry in biological systems before beginning my current role as Associate Scientist in 2024.

My skillset includes experimental design and data analysis related to ultrafast optical transient absorption, X-ray absorption, X-ray emission, Resonant Inelastic X-ray Scattering, and electron paramagnetic resonance spectroscopies.

My research interests include hard and tender X-ray spectroscopies, sulfur chemistry, metalloenzymes, and organic semiconductors.

CURRENT ROLE AT STANFORD

I am currently an Associate Scientist in the LCLS Biological Sciences Department. I support condensed phase chemistry experiments at LCLS with a focus on hard and tender X-ray spectroscopies. I also work to develop research that applies hard and tender X-ray spectroscopic techniques to understanding enzymatic catalysis and studying ultrafast dynamics in inorganic and organic chromophores relevant for solar energy conversion and photocatalysis.