



Molleigh Preefer

Associate Scientist, SLAC National Accelerator Laboratory

Bio

BIO

Dr. Molleigh Preefer is an Associate Staff Scientist at the Stanford Synchrotron Radiation Lightsource (SSRL). She initially worked at SSRL as a postdoctoral researcher using X-rays to study batteries through a combination of microscopy, diffraction, and spectroscopy. Her current research focus as associate staff scientist is studying electrochemical systems and synthesis, with a particular interest in enabling operando X-ray experiments when materials are pushed far from equilibrium. In addition to her research interests, she supports the transmission X-ray microscopy beamline (BL6-2) and the battery user program on the diffraction beamlines within the Materials Sciences Division.

EDUCATION AND CERTIFICATIONS

- Ph.D., University of California, Santa Barbara , Materials Chemistry (2020)
- B.A., Columbia University , Chemistry (2014)

Publications

PUBLICATIONS

- **TomoPyUI: a user-friendly tool for rapid tomography alignment and reconstruction.** *Journal of synchrotron radiation*
Welborn, S. S., Preefer, M. B., Nelson Weker, J.
2024