Stanford



Molleigh Preefer

Assoc Sc - MatSci Hard X-ray, Stanford Synchrotron Radiation Lightsource

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