

Computational Coherent X-ray Imaging via Deep Learning

The student will help to build a physics-informed model of a diffraction experiment and then use deep learning methods to solve the inverse problem to recover an image. They will apply it to experimental data of novel functional materials at nanometer resolution.

Group

FS-CFEL-1

Project Category

A6. Theory and computing

Special Qualifications

Primary author: ZHANG, Wenhui (FS-CFEL-1 (Forschung mit Photonen Experimente 1))

Co-author: CHAPMAN, Henry (DESY)