

Student Assistant: “Advanced Computational Imaging”

We are looking for motivated students to work in the field of computational imaging. We develop novel imaging methods (in particular Ptychography) on the frontier of current research aiming to overcome the limitations of lens-based imaging. Experiments are either performed at one of our cutting-edge table-top EUV-Imaging beamlines or at a visible light setup incorporating a supercontinuum laser source.

Potential tasks include the design and characterization of diffractive and refractive optical elements for illumination, the test of additional contrast channels, the development of novel data acquisition strategies and systematic measurements on semiconductor chips, battery materials and biological samples.

You will have the opportunity to learn about modern computational imaging, laser sources and data processing.

Requirements: Bachelor or Master student in physics or photonics. Basic knowledge of optics is required. Programming skills (matlab or python) are advantageous.

If you are interested, please contact Jan Rothhardt (jan.rothhardt@uni-jena.de).