

# Brent Nannenga

## Contact Information:

Brent Nannenga

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## Biography:

Brent Nannenga is an Associate Professor of Chemical Engineering in the School for Engineering Matter, Transport and Energy at Arizona State University and a member of The Biodesign Institute's Center for Applied Structural Discovery. He received his Ph.D. in Chemical Engineering from the University of Washington in 2011 under the supervision of François Baneyx. Following his graduate studies, he conducted postdoctoral research at Janelia Research Campus (Howard Hughes Medical Institute) in the lab of Tamir Gonen, where he focused on the development and application of cryo-electron microscopy (cryo-EM), specifically the development of microcrystal electron diffraction (MicroED). Since joining Arizona State University in 2015, his research has focused on developing and using methods for high-resolution structure determination, and employing structural insights gained from these methods in order to engineer biomolecules and materials with novel and unique properties. His work has been recognized by awards including an NSF CAREER Award, Air Force Office of Scientific Research (AFOSR) Young Investigator Award, the 2020 Burton Medal from the Microscopy Society of America, and the 2022 Margaret C. Etter Early Career Award from the American Crystallographic Association.

## Research Interests and Topics of Presentation:

- Microcrystal electron diffraction (MicroED),
- Electron crystallography,
- Cryo-electron microscopy (Cryo-EM)