



## Paul B. Welander

Staff Scientist, SLAC National Accelerator Laboratory

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### Bio

#### BIO

Paul Welander is a Staff Scientist in the Technology Innovation Directorate at SLAC National Accelerator Laboratory, and Department Head for Q-NEXT, a DOE-funded quantum information science research center led jointly by Argonne National Laboratory and SLAC. Paul's research interests concern materials for quantum devices, from the study of materials-induced decoherence mechanisms in superconducting quantum bits, to the development of materials platforms that enable novel quantum technologies. He's a researcher in both the Detector Microfabrication Facility and Nano-X, two new state-of-the-art cleanrooms at SLAC geared toward superconductor quantum device fabrication and rapid nano-prototyping, respectively. His expertise includes molecular beam epitaxy of metal-oxide heterostructures, superconducting device fabrication, and an array of materials characterization techniques including x-ray diffraction and scanning probe microscopy. Paul received his Ph.D. in physics from the University of Illinois at Urbana-Champaign, and holds Bachelor's degrees from both Caltech and Occidental College. Prior to joining SLAC in 2012, he spent five years as a member of the technical staff at MIT Lincoln Laboratory.