

Dr. Anna Bezryadina is a postdoctoral scientist at University of California San Diego (UCSD). She has wide ranging experience in optics and photonics, her research interests include biophotonics, optical trapping and manipulation for biological applications, and high-resolution microscopy. In 2005 she finished her B.S. degree in Physics and Applied Mathematics from San Francisco State University (SFSU), where she worked for several years on optical solitons, photonic lattices and vortices. Then she joined the University of California Santa Cruz to investigate the reliability and degradation mechanisms in different types of solar cells. Dr. Bezryadina did her research at the NASA Ames Research Center, built photothermal deflection spectrometer to measure mid-gap trap density in thin films and analyzed the degradation mechanisms of silicon, polymers, and nanoparticle thin films. After receiving her Ph.D. in 2012, she returned back to photonics and experimental optics with biological applications. She joined Zhigang Chen's lab at SFSU where she developed new optical trapping and manipulation tools to study microorganisms' interactions, as well as demonstrating biological waveguides for the first time. In 2015 she moved to UCSD for her current position as a postdoctoral scientist in the Liu's lab to develop video-speed super-resolution plasmonic structure illumination microscopy to study biological processes at 50nm scale.