



Anna-Karin Gustavsson, PhD
Norman Hackerman-Welch Young Investigator
Assistant Professor
Chemistry

*3D Single-molecule Super-resolution Light Sheet Imaging
Throughout Mammalian Cells*

Dr. Gustavsson joined the faculty at Rice University in the summer of 2020 as a CPRIT Scholar and the Norman Hackerman-Welch Young Investigator Chair. Dr. Gustavsson received her PhD in Physics from the University of Gothenburg, Sweden, in 2015. Her work focused on studying dynamic responses in single cells by combining and optimizing techniques such as fluorescence microscopy, optical tweezers, and microfluidics. Upon completion of her graduate work, Dr. Gustavsson joined the group of Nobel Laureate W. E. Moerner at Stanford University as a Postdoctoral Fellow in 2015. Her research focused on the development and application of 3D single-molecule super-resolution microscopy for cellular imaging, and included the implementation of light sheet illumination for optical sectioning of mammalian cells. Dr. Gustavsson's work has been recognized with multiple honors, awards, and fellowships, most notably the *FEBS Journal Richard Perham Prize for Young Scientists* in 2012, the 3-year *Swedish Research Council International Postdoc Fellowship* in 2016, the *PicoQuant Young Investigator Award* in 2018, the *NIH K99/R00 Pathway to Independence Award* in 2019, and the *CPRIT Recruitment of First-Time Tenure-Track Faculty Members Award* in 2020.