



## Xiaowei Zhuang

Harvard University

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Xiaowei Zhuang is the David B. Arnold Professor of Science and the director of Center for Advanced Imaging at Harvard University, and a Howard Hughes Medical Institute investigator. Her lab develops advanced optical imaging technologies, in particular single-molecule and super-resolution imaging methods, to study biological systems. She invented STORM, one of the first single-molecule-based super-resolution imaging methods, which allows imaging of biological structures with nanometer-scale resolution. She discovered novel cellular structures using STORM. She invented a single-cell transcriptome imaging method, MERFISH, and has applied this method to study cells and tissues at the

systems level. Her lab has also developed and applied many other imaging approaches to investigate biomolecular systems.

Zhuang received her B.S. degree from the University of Science and Technology of China, her Ph.D. degree in physics the lab of Prof. Y. R. Shen at UC Berkeley, and her postdoctoral training in biophysics in the lab of Prof. Steven Chu at Stanford University. She joined the faculty of Harvard University in 2001 and joined the Howard Hughes Medical Institute as an investigator in 2005.

Zhuang is a member of the US National Academy of Sciences and the American Academy of Arts and Sciences, a foreign member of the Chinese Academy of Sciences and the European Molecular Biology Organization, a fellow of the American Association of the Advancement of Science and the American Physical Society, and an honorary fellow of the Royal Microscopical Society. She has received honorary doctorate degrees from the Stockholm University and the Delft University of Technology. Among her other awards are the MacArthur Fellowship, the Pure Chemistry Award from the American Chemical Society, the Max Delbrück Prize in Biological Physics from the American Physical Society, the Raymond and Beverly Sackler International Prize in Biophysics, and the National Academy of Sciences Award in Molecular Biology, etc.