

Biography:

Dr. Anna Wang Roe 王菁 (B.A. Harvard University 1984, Ph.D. MIT 1991) is the Director of the Interdisciplinary Institute of Neuroscience and Technology at Zhejiang University (ZIINT, 系统与认知神经科学研究所 established in 2014). She is known for her studies in brain function and organization, particularly as it relates to vision and somatosensory processing in primate cerebral cortex. Her doctoral work on the 'rewired ferret' preparation is a well-known paradigm for studying brain development and plasticity. During her postdoctoral work under Nobel Laureate Torsten Wiesel at Rockefeller University, she developed intrinsic signal optical imaging methods to study the functional organization of visual cortical areas in the primate. In her first faculty position in the Department of Neurobiology at Yale University School of Medicine, she began her studies on vision and attention in awake behaving monkeys. From 2003-2015, as a Professor of Psychology, Radiology, and Biomedical Engineering at Vanderbilt University, she established multimodal methods for studying brain circuits and pioneered strong interdisciplinary directions. In recognition for her contributions in science, she was elected AAAS Fellow in 2016. Recently, she has developed a novel technology for mapping brain connectomes and is exploring a theoretical basis for natural and artificial intelligence.