

Biographic Sketch

Chris Xu is the IBM Chair Professor of Engineering and director of the School of Applied and Engineering Physics, Cornell University. He is the Mong Family Foundation Director of Cornell Neurotech – Engineering. His current research areas are fiber optics and biomedical imaging, with major thrusts in multiphoton microscopy for deep brain imaging, multiphoton microendoscopy for clinical applications, and fiber-based devices and systems for telecommunications and optical imaging. Chris Xu pioneered the development of temporal focusing and long wavelength two- and three-photon microscopy for deep tissue imaging. Prior to Cornell, he was a member of technical staff at Bell Laboratories, and pioneered breakthrough development of fiber optic communication systems based on differential phase-shift keying. He received his Ph.D. in Applied Physics, Cornell University, and his B.S. in Physics from Fudan University. He served as the Director of Graduate Studies in Applied Physics from 2007-2013, and the Director of Undergraduate Studies of the School of Applied and Engineering Physics from 2014 to 2016.

Dr. Xu has chaired or served on many conference organization committees and NSF/NIH review panels. He served on the NIH NEI External Scientific Oversight Committee of the Audacious Goal Initiative and the OSA Biomedical Congress Strategic Planning Committee. He served as Associate Editor for Biomedical Optics Express, and is on the editorial boards of several journals. He has published 9 book chapters and > 350 journal and conference papers. Dr. Xu has delivered > 350 plenary/keynote/invited conference presentations and research seminars. He holds 27 patents on optical communications and imaging. He has won the NSF CAREER award, Bell Labs team research award, and the Tau Beta Pi and two other teaching awards from Cornell Engineering College. He received Cornell Engineering Research Excellence Award in 2017. He is a fellow of the National Academy of Inventors and a fellow of the Optical Society of America.