Assistant Professor Hong

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Dr. Guosong Hong received his Ph.D. in chemistry from Stanford University in 2014 and then carried out postdoctoral studies at Harvard University. Dr. Hong joined Stanford Materials Science and Engineering and Neurosciences Institute as an assistant professor in September 2018. His research integrates materials science, physics, and chemistry to address fundamental challenges in biology and medicine. The Hong Lab is internationally recognized for pioneering technologies in in vivo optical transparency, deep-tissue light delivery, and biophotonics-enabled neurotechnology. In 2024, the Hong Lab reported the world's first live transparent mice in Science, demonstrating that optical transparency in living animals can be achieved transiently and reversibly through materials-based control of light-tissue interactions. This discovery has since catalyzed a wave of follow-up studies worldwide, enabling new approaches to deep-tissue imaging, neural modulation, and light-based therapeutic applications. Dr. Hong's contributions have been recognized with several major honors, including the NIH Pathway to Independence (K99/R00) Award, the MIT Technology Review '35 Innovators Under 35' Award, the Science PINS Prize for Neuromodulation, the NSF CAREER Award, the Walter J. Gores Award for Excellence in Teaching, the Rita Allen Foundation Scholars Award, the Camille Dreyfus Teacher-Scholars Award, the Presidential Early Career Award for Scientists and Engineers (PECASE), the Vilcek Prize for Creative Promise in Biomedical Science, the inaugural SPIE Biophotonics Discovery Impact of the Year Award, the Alfred P. Sloan Research Fellowship in Physics, the Pershing Square Foundation MIND Prize, and Fellow of the American Institute for Medical and Biological Engineering (AIMBE).