



**Professor Jonathan CHOI Chung-hang**  
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Prof. Jonathan Choi Chung-hang joined CUHK in 2013 as an assistant professor in the Department of Electronic Engineering. As a core member of the Biomedical Engineering Programme, his research interests lie in drug delivery, 'bio-nano' interactions, bionanomaterials, and biological imaging.

Professor Choi specializes in the interactions of nanoparticles with the body across the length scales of organ, tissue, cell, and organelle. His mechanistic research will inform useful 'design rules' for building more potent therapeutic nanoparticles. He previously reported novel 'bio-nano' interactions between nanoparticles and the kidney (Choi CHJ et al. PNAS, 2011), which will aid the development of new delivery strategies to the kidney. With this award, he hopes to design nanoparticles for detecting kidney diseases in vivo.



Born and raised in Hong Kong, Professor Choi completed his secondary school studies at Wah Yan College Hong Kong, scoring 10 distinctions in the HKCEE in 2000. He later moved to the U.S. and obtained his B.S. and M.S. degrees in chemical engineering from Stanford University in 2005 and 2006, respectively. In 2011, he received his Ph.D. degree in chemical engineering from the California Institute of Technology. For his dissertation, he established important design rules for delivering nanoparticles to the tumor and kidney mesangium in vivo. From 2011 to 2013, he worked as a Croucher postdoctoral fellow at Northwestern University, where he studied how bionanomaterials enter and subsequently traffic inside the cell.