

CUHK Photonic & Optomechanical Nanodevice Laboratory Recruitment

Openings:

- (1) Ph.D. students to start in Fall 2025.
- (2) Postdoctoral researchers with flexible time frames.
- (3) Summer research interns, exchange students, visiting students, research assistants with flexible time frames.

Our research areas:

We study a wide range of topics related to optics, electronics, and acoustics at the nanoscale, including nanophotonics, nanomechanics, nanofabrication, optomechanics, optoacoustics, optoelectronics, micro- and nanoelectromechanics, photonic nanostructures, semiconductor lasers, photonic crystals, integrated optics, nonlinear photonics, topological photonics, microwave photonics, optical communication and information processing. The projects can be fundamental research or practical application oriented based on your background and taste.

About Prof. Sun:

I obtained my Ph.D. in Applied Physics from California Institute of Technology in 2010. During 2020–2014, I was a Postdoctoral Associate and then an Associate Research Scientist in Department of Electrical Engineering at Yale University. In 2014, I joined CUHK where I am currently an Associate Professor of Electronic Engineering and Associate Director for Center of Optical Sciences. I am currently an Associate Editor for *Optica* and *Journal of Lightwave Technology*. I was honored as a finalist of the Blavatnik Awards for Young Scientists by New York Academy of Sciences in 2013. I also received the Early Career Award 2015/16 and Research Fellow Scheme (RFS) Award 2023/24 from the Research Grants Council of Hong Kong and the Young Researcher Award 2022/23 from The Chinese University of Hong Kong.

About our research group:

We are working at the frontiers of nanoscience and nanotechnology, exploring both novel physics and technological applications of nanodevices on a chip. Our research has been published in world-leading journals, such as *Nature Nanotechnology*, *Nature Communications*, *Science Advances*, *Advanced Materials*, *Light: Science & Applications*, *Optica*, *Physical Review Letters*, etc. I work closely with my students and postdocs to ensure rapid progress. With curiosity, creativity, and diligence, you can produce high-impact results for publication as fast as 4 months!

About EE at CUHK:

1. CUHK is ranked No. 36 worldwide (No. 2 in Hong Kong) according to the QS World University Rankings 2025 (<https://www.topuniversities.com/world-university-rankings?countries=hk>), No. 42 worldwide (No. 1 in Hong Kong) according to the US News 2024-2025 Best Global Universities Rankings (<https://www.usnews.com/education/best-global-universities/hong-kong>), or No. 44 worldwide (No. 2 in Hong Kong) according to the Times Higher Education (THE) World University Rankings 2025 (https://www.timeshighereducation.com/world-university-rankings/latest/world-ranking#!/length/25/locations/HKG/sort_by/rank/sort_order/asc/cols/stats).
2. CUHK has the highest proportion of world leading and internationally excellent research within the Electrical and Electronic Engineering area in Hong Kong, according to the Results of the Research Assessment Exercise 2020 by the University Grants Committee (<https://www.ugc.edu.hk/doc/eng/ugc/rae/2020/result/rae2020results04.pdf>).

Contact Prof. Sun:

Please visit our homepage <http://www.ee.cuhk.edu.hk/~xksun>. If you are interested in joining our group, please feel free to send an email to xksun@cuhk.edu.hk and attach your CV, academic transcript, and publication list.