

CUHK Photonic & Optomechanical Nanodevice Laboratory Recruitment

Openings:

- (1) Ph.D. students to start in Fall 2021 or 2022;
- (2) Summer research students, 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, microwave photonics, optical communication and information processing. The research projects can be fundamental or application oriented based on your background and taste.

About Prof. Sun:

I obtained my Ph.D. degree 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 Department of Electronic Engineering at CUHK, where I am currently an Associate Professor. I am currently an Associate Editor of *Optics Express* and an Editorial Board Member of *Scientific Reports*. I was honored as a finalist of the prestigious Blavatnik Awards for Young Scientists in 2013 from New York Academy of Sciences. I also received the Early Career Award from Hong Kong Research Grants Council in 2015, which is the highest honor for junior professors in Hong Kong.

About our research group:

We are working at the frontiers of nanoscience and nanotechnology, exploring both novel physics and technological applications of integrated nanodevices. Nanophotonics, nano-optomechanics and optoacoustics are recent hot topics. Working in these areas, we can produce research results for publishing in the world's top journals. Our research has been published in world-leading journals, such as *Nature Nanotechnology*, *Nature Communications*, *Science Advances*, *Advanced Materials*, *Light: Science & Applications*, *Optica*, *Laser & Photonics Reviews*, etc. As a young professor, I know the project details and work closely with my students to ensure rapid progress. With curiosity, creativity, and hard work, you can produce high-impact results for publication as fast as 4 months!

About EE at CUHK:

1. CUHK is constantly ranked No. 1 in Hong Kong, according to the ARWU's Ranking of Top Universities in Hong Kong 2019 and 2020 (<http://www.shanghairanking.com/World-University-Rankings-2020/China-hk.html>).
2. EE of CUHK is constantly ranked in top 30 worldwide in recent years and No. 1 in Hong Kong, according to the QS World University Rankings by Subject 2016 and the ARWU's Global Ranking of Academic Subjects 2017 (<http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/electrical-electronic-engineering.html>).
3. CUHK has the highest proportion of world leading research within the Electrical and Electronic Engineering area in Hong Kong, according to the Results of the Research Assessment Exercise 2014 by the University Grants Committee of Hong Kong (<http://www.ugc.edu.hk/eng/doc/ugc/rae/rae2014results.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.