香港城市大學
City University of Hong Kong
**Department of Electrical Engineering**

City University of Hong Kong
Department of Electrical Engineering &
Optica Student Chapter
Jointly present a Seminar on

# Heterogeneous laser integration for silicon and silicon nitride photonics

*by*


## Dr. Chao Xiang

*Department of Electrical and Electronic Engineering*
*University of Hong Kong*


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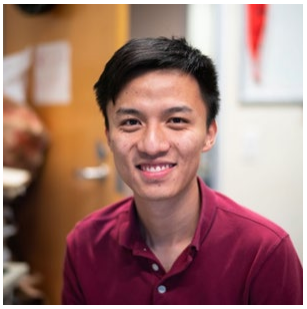
| Date | : | **26 August 2022** (Friday) |
| Time | : | **10:00 am – 11:00 am** |
| Venue | : | **G4702, Yeung Kin Man Academic Building**<br>City University of Hong Kong |
| Language | : | English |
| Note | : | Everyone must do RAT on the day before entering the venue. |


**Abstract**

Silicon photonics is evolving rapidly into advanced photonic integrated circuits. Heterogeneous photonic integration provides efficient III-V gain and laser sources on silicon. This technology has not only enabled commercially-available products in datacenter interconnects but also shows fundamental advantages in improving the laser performance. On the other hand, silicon nitride is emerging in applications where low loss is the key factor. In this talk I'll discuss the recent progress of heterogeneous laser integration for silicon and silicon nitride photonics, which could enable the next-generation high-performance photonic integrated circuits for applications including interconnects, sensing, metrology and so on.


**Biography**



Dr. Chao Xiang is currently an Assistant Professor at the Department of Electrical and Electronic Engineering (EEE), the University of Hong Kong (HKU). His research focuses on heterogeneous photonic integration, silicon photonics, semiconductor lasers and photonic integrated circuits. Before joining HKU, he was a Postdoctoral Scholar and obtained his Ph.D. degree both at University of California, Santa Barbara. He obtained his B.E degree from Huazhong University of Science and Technology and M.Phil. degree from the Chinese University of Hong Kong.

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