

Lim Kian Hwee | Resumé

📞 (Available on request) • ✉ kianhwee_lim@yahoo.com.sg • 🇸🇬 Nationality: Singaporean

Education

PhD in Quantum Physics (In progress)

Center for Quantum Technologies

NUS, Singapore

Aug 2020 to –

Bachelor of Science (Hons)

Faculty of Science

NUS, Singapore

Aug 2016 to May 2020

- Major in Physics
- First Class Honours

Work Experience

Teaching Assistant

Faculty of Science

NUS, Singapore

Aug 2022 - Dec 2022

Helped out with tutorials as well as created the tutorial and assignment questions for the students for an introductory course on Quantum Mechanics (PC2130). Received good teaching feedback.

Research Assistant

Institute of High Performance Computing

A*STAR, Singapore

May 2018 to Aug 2018

Utilized Computational Fluid Dynamics simulations in OpenFOAM to investigate the effect of building layout on Thermal Comfort in the Punggol region in Singapore. Results obtained contributed to 10% of a new software which is currently patented.

Teaching Assistant

School of Computing

NUS, Singapore

Jan 2018 to May 2018

Taught classes and helped to grade students for an introductory course on programming methodology in Python (CS1010S). Received good teaching feedback; teaching score was above the departmental average.

Technical and Personal skills

Programming Languages

Proficient in: Python 3 (including the QuTip, Qiskit, Numpy, Scipy, Pandas and Matplotlib libraries)

Experienced in: C++ 14, Java 9, Bash

Other Software:

Proficient in: \LaTeX , PowerPoint, Word

Experienced in: OpenFOAM, Excel

Communication

Proficient in: English (written and spoken), Chinese (spoken)

Awards and Scholarships

2016: A*STAR Undergraduate Scholarship

August 2018: Dean's List, Faculty of Science, NUS

2018: Jurong Shipyard Book Prize (Physics), NUS

2018: Chairman's Honours List, A*STAR

2020: CQT Scholarship

Publications

- [1] **Kian Hwee Lim**, Aik Hui Chan, and Choo Hiap Oh. Transverse energy density in high energy heavy ion collisions. In *EPJ Web of Conferences*, volume 240, page 07006. EDP Sciences, 2020.
- [2] **Kian Hwee Lim**, Tobias Haug, Leong Chuan Kwek, and Kishor Bharti. Fast-forwarding with NISQ processors without feedback loop. *Quantum Science and Technology*, 7(1):015001, 2021.
- [3] Jonathan Wei Zhong Lau, **Kian Hwee Lim**, Harshank Shrotriya, and Leong Chuan Kwek. NISQ computing: where are we and where do we go? *AAPPS Bulletin*, 32(1):27, 2022.
- [4] **Kian Hwee Lim**, Wai-Keong Mok, and Leong-Chuan Kwek. Oscillating bound states in non-Markovian photonic lattices. *Physical Review A*, 107(2):023716, 2023.
- [5] Jonathan Wei Zhong Lau, **Kian Hwee Lim**, Kishor Bharti, Leong-Chuan Kwek, and Sai Vinjanampathy. Convex optimization for non-equilibrium steady states on a hybrid quantum processor. *Phys. Rev. Lett.* 130, 240601, 2023.