## HAIXUAN CHENG

 $(86) \cdot 188 \cdot 0109 \cdot 3961 \diamond$  hxcheng@phy.cuhk.edu.hk

## **EDUCATION**

The Chinese University of Hong Kong (CUHK), Hong Kong S.A.R. 2020 to 2022 M.Phil in Quantem Sensing in Physics

Beijing Normal University (BNU), Beijing

B.S. in Physics Member of Student Union of BNU Overall GPA 3.8/4.0; Core GPA 3.9/4.0

## **EXPERIENCE**

**CUHK**, Department of Physics Augest 2020 - Present PhD Student Sha Tin, Hong Kong · Quantum sensing technology based on nano-diamond, application on ultra-thin polymer film · PhD project, the paper is currently under writing · Data processing and modelling completed by self-written Python project **BNU**, Department of Physics December 2017 - February 2019 Participant Beijing • Figures on the paper were generated by MATLAB by me • Submitted paper to *Phys.Rev B* (arXiv: 1908.06582) **BNU**, Department of Physics January - April 2017 Independent Researcher Rizhao, Shandong Province · The influence of various components in polluted seawater on sound velocity in water was studied · COMSOL multi-fields simulation was involved · Published paper Study on sound velocity in complex polluted seawater to Journal of College Physics **BNU**, Department of Physics March 2017 - February 2018 Main Participant Beijing · Study on the growth of Graphene-hexagonal Boron Nitride composite structure by Chemical Vapor Deposition

· Undergraduate scientific research project, Beijing municipal key innovation projects

MORE AI	BOUT ME
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Basic Modern Physics	Advanced Quantum Mechanics, Quantum Optics, etc
Basic Math	Graph Theory ( <i>learning</i> ), Group theory, Topology, Lie algebra, etc
Computer Skills	Python, Linux, PyTorch and GNN ( <i>learning</i> ), etc
English	TOEFL(MBS) 101, CET-6 580, Communicate with foreigners fluently
Habits	Travel, Raspberry Pi, Running, Film Photography, Digital equipments
Dream	Create a Super Cyborg like Alita (animation and movie character), so
	I am very keen on AI, neural and brain, robots, sensors and chips.

2016 to 2020

- · Systematic research on graphene quantum dots defined by round graphene p-p junction