

CHAN POK FUNG

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EDUCATION

The Chinese University of Hong Kong (CUHK) Aug 2020 - expected Oct 2024
Ph.D. in Physics (Research Interest: Perovskite Solar Cell)

- TA for Statistical Mechanics and Techniques in Materials Characterization
- Close collaboration with various X-ray synchrotron sources (NSRRC in Taiwan and SSRF in Shanghai), and neutron sources (CSNS in Dongguan)

The Chinese University of Hong Kong (CUHK) Sep 2014 - Jul 2019
BSc. in Physics (Minor in Mathematics) GPA: 3.743/4.000 (First-class Honour)

University of California, Los Angeles (UCLA) Sep - Dec 2016
UC Education Abroad Program (Physics) GPA: 4.000/4.000 (Dean's Honors List)

WORK EXPERIENCE

Cloud Light Technology Limited Jun 2019 - Jul 2020
Engineer

- Tested individual components and the integration of various components in optical transceivers, involving high-speed silicon photonics up to 800G
- Developed network-based systems for simulating the actual operation environment
- Created automated testing flows for internal use to streamline the verification of industry protocols for optical transceivers

ACADEMIC EXPERIENCE

The China Spallation Neutron Source Jun - Jul 2021
Intern

- Developed algorithms for 2D indirect Fourier Transform of transmission SANS data
- Report: [Indirect Fourier Transform for 2D SANS data of anisotropic sample](#)

The Chinese University of Hong Kong Jan 2018 - Apr 2019
Student Research Assistant

- Studied doping effects on hybrid perovskite solar cells
- Explored the impact of various dopants on the lattice structure with GIWAXS
- Thesis: [Mixed halide perovskites with rubidium doping and potassium passivation](#)

Lawrence Berkeley National Laboratory Jun - Aug 2017
Summer Research Assistant

- Designed algorithms for galaxy spin fitting and reached a 95% accuracy
- Analyzed correlations between galaxy spins and large-scale filament directions
- Report: [Alignments between large-scale structure filaments and galaxy spins](#)
- Related publication: Alex Krolewski et al., [Alignment between Filaments and Galaxy Spins from the MaNGA Integral-field Survey](#), *ApJ* **2019**, 876, 52

PUBLICATIONS

<i>Published</i>	P.F.Chan, et al. , iso-BAI Guided Surface Recrystallization for Over 14% Tin Halide Perovskite Solar Cells , <i>Advanced Science</i> 2024 , 2309668
<i>In Review</i>	P.F.Chan, et al. , Ultra-Thin Lead Sulfide Capping for Stabilizing Tin Halide Perovskite Solar Cells
<i>In preparation</i>	P.F.Chan, et al. , Crystallization Dynamics of Tin-Lead Perovskite Solar Cells via Carboxylate Mediation

SKILLS

Languages Cantonese and Mandarin (bilingual), English (Fluent), Spanish (Elementary)
Technical Skills Programming (C++, Python, MATLAB), Web development (ReactJS)