

# Vox Kalai WONG

Experimental Physicist

## Education

2020 – 2024 (4-yr Program)

**GPA 3.84**

### **PhD in Physics**

Hong Kong Baptist University

- Emerging photovoltaics and solar energy
- Photothermal and optical spectroscopy

2012 – 2016 (4-yr program)

**1<sup>st</sup> Class Honors**

### **BEng in Product Engineering**

The Hong Kong Polytechnic University

- Mechanical and industrial engineering
- Minor in Marketing

## Experiences

2016 – 2020

### **Sr. Product & Project Manager**

GP Electronics (HK) Limited

- Product R&D project management
- Business pitching to B2B customers

## Recognition

Dec 2024

### **Best Female Student Poster (APSRC)**

May 2024

### **Winner of Three Minute Thesis (3MT) Speech Competition**

Mar 2024

### **Dr. Wu Yee Sun Memorial Scholarship**

Oct 2023

### **Li Po Chun Charitable Trust Fund Postgraduate Scholarship**

Aug 2023

### **Best Paper Award (Oral)**

## Contacts

+852 63465448 [voxwong@gmail.com](mailto:voxwong@gmail.com)

## Publication

**ORCID:** [0000-0001-6517-6419](https://orcid.org/0000-0001-6517-6419)

### **1<sup>st</sup> Author**

Nov 23, 2024

#### **Energy & Environmental Science [IF 32.4]**

Semi-transparent Solar Cells: Strategies for Maximum Power Output in Cities

DOI: [10.1039/D4EE03757J](https://doi.org/10.1039/D4EE03757J)

Jun 17, 2023

#### **Materials Today Energy [IF 9.0]**

0.01–0.5 sun is a realistic and alternative irradiance window to analyze urban outdoor photovoltaic cells

DOI: [10.1016/j.mtener.2023.101347](https://doi.org/10.1016/j.mtener.2023.101347)

### **Co-author**

Sep 5, 2024

#### **Applied Physics Letters [IF 3.5] \*Cover**

Temperature-dependent charge transport measurements unveil morphological insights in non-fullerene organic solar cells

DOI: [10.1063/5.0214151](https://doi.org/10.1063/5.0214151)

Jan 11, 2024

#### **Materials Science & Engineering R [IF 31.6]**

Extracting charge carrier mobility in organic solar cells through space-charge- limited current measurements

DOI: [10.1016/j.mser.2024.100772](https://doi.org/10.1016/j.mser.2024.100772)

Oct 8, 2023

#### **Advanced Energy Materials [27.8]**

Unraveling high reproducibility and broad composition tolerance in high- efficiency organic solar cells via sequential deposition

DOI: [10.1002/aenm.202302029](https://doi.org/10.1002/aenm.202302029)

# Vox Kalai WONG

Experimental Physicist

## Profile

- **Passionate** experimental physicist with a strong **engineering background**.
- **Fast learner** thriving in diverse fields, applying a **systematic approach**.
- **Effective communicator** with **leadership** skills.
- Embracing challenges with a **growth mindset, strong research**, problem-solving, analytical, and critical thinking **abilities**.

## Skills

### Language

- Fluent in English (IELTS 8)
- Fluent in Chinese (Cantonese, Mandarin, Teochew)

### Experimental

- Photothermal Deflection Spectroscopy (PDS)
- Atomic Force Microscopy (AFM)
- Space Charge Limited Current (SCLC)
- Temperature Dependent External Quantum Efficiency (EQE)
- Thin Film Deposition Techniques

### Engineering

- 3D Scanning & Printing
- Computer Aided Design (CAD)
- 3D Mechanical and Thermodynamic Simulation
- Graphical Programming

### Data Analysis & Presentation

- Data Mining & Analysis
- Photo and Video Editing
- 2D Graphic Design

## Contacts

+852 63465448 [voxwong@gmail.com](mailto:voxwong@gmail.com)

## Exposure

Dec, 2024 in Sydney, AUS

### Asia-Pacific Solar Research Conference

**[Poster Presentation] \*Best Poster Award**

Semi-transparent Solar Cells: Strategies for Maximum Power Output in Cities

Dec, 2024 in Sydney, AUS

### ACAP PV Characterization Mini-Symposium

**[Oral Presentation]**

Predicting the Power Output of Photovoltaics in Cities

Dec, 2023 in Melbourne, AUS

### International Conference on Quantum Energy 2023

**[Oral Presentation]**

0.01-0.5 sun is a realistic and alternative irradiance window to analyze urban outdoor photovoltaic cells

**[Poster Presentation]**

Characterizing Thermal Diffusivity of Semiconducting Polymers by Scanning Photothermal Deflection (SPD) Technique

Nov, 2023 in Boston, USA

### 2023 MRS Fall Meeting & Exhibit

**[Oral Presentation]**

Characterizing Thermal Diffusivity of Semiconducting Polymers by Scanning Photothermal Deflection (SPD) Technique

**[Poster Presentation]**

0.01-0.5 sun is a realistic and alternative irradiance window to analyze urban outdoor photovoltaic cells

Nov, 2023 in Hong Kong, China

### Hong Kong Laureate Forum