

# Duolan Huang (黄朵澜)

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## Education Qualifications

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- **The University of Hong Kong** Sep 2024 - present  
*PhD in Electrical and Electronic Engineering*
- **Sun Yat-sen University**  
*Master of Science in Optics (Exam exempted admission)* Sep 2021 - Jun 2024  
- Grade: 88/100, advisor: Prof. Rui Chen  
*Bachelor of Science in Opto-Electronics Information Science & Engineering* Sep 2017 - Jun 2021  
- GPA: 3.9/4.0  
- Enrolled in the *Training Base for Top Students* in Physics, SYSU

## Research Experience

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- **HKU | Computational Imaging and Mixed Representation Lab** Sep 2024 - present
- **SYSU | State Key Laboratory of Optoelectronics Material and Technology** Sep 2021 - Jun 2024  
- *Non-line-of-sight reconstruction. Developed a novel regularization method which exploits structure sparsity for noise-robust non-line-of-sight reconstruction.*  
- *Fourier ptychographic microscopy. Leveraged a physics-enhanced deep neural network to improve image quality and robustness.*

## Publications

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- **Duolan Huang**, Quan Chen, Zhun Wei, and Rui Chen, "Non-line-of-sight reconstruction via structure sparsity regularization," *Optics Letters* 48, 4881-4884 (2023).
- Quan Chen, **Duolan Huang**, and Rui Chen, "Fourier ptychographic microscopy with untrained deep neural network priors," *Optics Express* 30, 39597-39612 (2022).

## Honors & Awards

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- Outstanding graduate of Sun Yat-sen University 2024
- National Scholarship - *Highest scholarship for Chinese graduate* 2023
- Chen Ning Yang Scholarship - *Awarded to outstanding SYSU graduate majoring in Physics* 2023
- First-class Scholarship of Sun Yat-sen University 2021, 2023
- Contemporary Undergraduate Mathematical Contest in Modeling, First-class Prize 2019

## Service and Teaching

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- **Teaching Assistant:** Signals and Systems (Spring 2022), College Physics (Spring 2023)
- **Student Volunteer:** Cross-Strait Undergraduates' Technology-Culture Camp 2018

## Professional Skills

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- **Language:** English - fluent, Mandarin Chinese - native
- **Programming and Tools:** Python, MATLAB, C, PyTorch, Tensorflow, LabVIEW, LaTeX, HTML, Blender, Origin