

# Minze Xu

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## Summary

Minze Xu will be conducting his final year project at CUHK focusing on quantitative phase imaging and will obtain his bachelor's degree in Optoelectronic Information Science and Engineering from Huazhong University of Science and Technology. His research interests include computational optical imaging, biomedical imaging and phase retrieval.

## Education

**Bachelor of Engineering, Huazhong University of Science and Technology**    Sept 2021 – June 2025  
School of Optical and Electronic Information

- **Major:** Optoelectronic Information Science and Engineering
- **GPA:** 3.51/4.0
- **Overall Grade:** 84.5/100

## Experience

**Research Intern: Computational Imaging and Diffraction Calculation**    Wuhan, China  
Laboratory for Modern Applied Optics, HUST    Feb 2024 – Present

- Proposed a flexible and efficient nonparaxial propagation method for optical fields with arbitrary smooth wavefronts.
- Supervisor: Prof. Donglin Ma and Prof. Shili Wei

**Research Intern: Computational Imaging and Quantitative Phase Imaging**    Shenzhen, China  
Bay Jay Ray Technology Limited Inc.    July 2024 – Present

- Developing generative quantitative phase imaging deep neural network for potential enhancement of resolution and multi-task application(ongoing)
- Supervisor: Prof. Renjie Zhou (CUHK)

**Research Intern: Intelligent Soft Biomaterials**    Wuhan, China  
Laboratory for Soft Nanomaterials and Devices, HUST    March 2023 – Aug 2023

- Reproduced and proved the results of Thermoresponsive bilayer hydrogel with switchable bending directions as soft actuator [10.1016/j.polymer.2022.124998](https://doi.org/10.1016/j.polymer.2022.124998) 🔗
- Supervisor: Prof. Jianfeng Zang

**Curriculum Design: Dammann Grating Simulation Design and Fabrication**    Wuhan, China  
School of Optical and Electronic Information, HUST    Sept 2023 – Jan 2024

- Calculated the related parameters and wrote the simulation code of Dammann grating and multi-value phase grating.
- Supervisor: Prof. Zhenyu Yang

## Publications

**Flexible and Efficient Nonparaxial Propagation Method for Optical Fields with Arbitrary Smooth Wavefronts(ongoing)**    anticipated to be submitted before 2025  
Minze Xu, Shili Wei, Donglin Ma

## Skills

**Languages:** English - Fluent (TOEFL: 102), Mandarin - Native speaker  
**Programming & software :** Python, Matlab, C, Verilog, LaTeX; Zemax