

# Xu Chen

✉ chenxu960812@gmail.com

🌐 <https://github.com/Chen-xu-0812/>

🌐 <https://www.linkedin.com/in/xu-chen-09a3101b0/>

## Research Interests

Computer Vision, Computational imaging, Computational photography, Image Processing, Machine Learning

## Experience

2020.05 – 2021.01

### 📌 Tencent AI Lab

Research topic: Deep learning-based single-shot autofocus.

Mentors: Jun Liao, Jianhua Yao

## Education

2018.09 – 2021.07

### 📌 M. Eng. Control Engineering, Tsinghua University

GPA: 3.43/4.0 Advisor: Prof. Yongbing Zhang Collaborator: Guoan Zheng

Thesis title: *Study on fast microscopic imaging algorithm based on deep learning.*

2014.09 – 2018.07

### 📌 B. Eng. Automation, Nanjing University of Posts and Telecommunications

GPA: 3.77/4.0 Ranking: 3/77

Coursework: Programming, Linear Algebra, Analog and Digital Circuits etc.

## Research Publications

- [1] **Accelerated Phase Shifting for Structured Illumination Microscopy Based on Deep Learning**  
**Xu Chen**, Bowen Li, Shaowei Jiang, Terrance Zhang, Xu Zhang, Peiwu Qin, Xi Yuan, Yongbing Zhang, Guoan Zheng, Xiangyang Ji  
*IEEE Transactions on Computational Imaging (TCI)*, 2021.
- [2] **Low-cost whole slide imaging system with single-shot autofocusing based on color multiplexed illumination and deep learning**  
Kaifa Xin, Shaowei Jiang, **Xu Chen**, Yonghong He, Jian Zhang, Hongpeng Wang, Honghai Liu, Qin Peng, Yongbing Zhang, Xiangyang Ji  
*Biomedical Optics Express (BOE)*, 2021.
- [3] **Deep learning-based single-shot autofocus method for digital microscopy**  
Jun Liao, **Xu Chen**, Ge Ding, Pei Dong, Hu Ye, Han Wang, Yongbing Zhang, Jianhua Yao  
*Biomedical Optics Express (BOE)*, 2022.

## Honors & Awards

- 2019.09 📌 **Silver Medal, Tsinghua University Graduate Winter Employment Practice**
- 2017.04 📌 **Meritorious Winner, International Mathematical Contest in Modeling**
- 2016.10 📌 **National Endeavour Scholarship, Ministry of Education, China**  
Top 2% in NJUPT