

Xu Chen

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🌐 <https://amarintine.github.io/>

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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: 3.74/4.0 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