

# Shenghong Luo

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[Github](#) | [ResearchGate](#) | [Google Scholar](#)

## EDUCATION

BEng of Network Engineering (GPA 83/100, 3.07/5) Sep.2019-Jun.2023

Huizhou University, China (Huizhou)

**Core Courses:** Data Structure, Computer Network, Operating System, Principle of Computer Organization, Computer Network Engineering, Database Application Technology.

MSc of Information Technology Management

Sep.2023-Jun.2024

Hong Kong Baptist University, China (Hong Kong)

**Core Courses:** Electronic Transformation in Business, Principles and Practices of Data Analytics.

## RESEARCH INTEREST

Computer Vision; Deep learning; Image Restoration; AI Generated Content; 3D Reconstruction.

## RESEARCH EXPERIENCE

**Research Assistant, Shenzhen Advanced Technology Research Institute, Chinese Academy of Sciences** Feb.2023-now

- Executed experimental procedures in support of the "DeVigNet" research project, encompassing server maintenance and experiment implementation.
- Spearheaded the generation and meticulous curation of a comprehensive dataset, encompassing more than 2000 images.
- Played a pivotal role in contributing to the composition and refinement of the "DeVigNet" research paper.
- **Gains:** Through participating in the DeVigNet project, I acquired essential knowledge in creating datasets as well as conducting experiments on server. Moreover, I gained insights into the latest advancements in the field of low-level technology. Additionally, I participated in UWFormer, which deepened my understanding of methods in the field of Under Image Enhancement. And I studied networks like Transformer.

**Research Assistant, University of Macau**

Aug.2022-now

- Collaborated extensively on the "DocDeshadower" research paper, actively contributing to the research process and playing a pivotal role in the paper's composition.
- Conducted comprehensive data collection and rigorous analysis pertaining to vignetting and low-light enhancement, effectively presenting findings through the use of graphical representations and tables.
- Provided valuable support by mentoring and guiding newly recruited Research Assistants in their academic paper writing tasks.
- **Gains:** Through the course of my research project, DocDeshadower, I acquired a comprehensive understanding of the entire research process. This encompassed generating motivation, selecting suitable methods, constructing models, conducting experiments, and analyzing the results. Moreover, I gained proficiency in research, particularly in the utilization of LaTeX, thus enhancing my overall comprehension.

## PUBLICATIONS

- Li Z, Zhang Z, **Luo S**, et al. An Improved Matting-SfM Algorithm for 3D Reconstruction of Self-Rotating Objects[J]. Mathematics, 2022, 10(16): 2892.
- Li Z\*, **Luo S\***, Zeng W, et al. 3d reconstruction system for foot arch detecting based on openmvg and openmvs[C]//2022 5th International Conference on Pattern Recognition and Artificial Intelligence (PRAI). IEEE, 2022: 1017-1022. (\*Equal Contribution)
- **Luo S**, Chen X, Chen W, et al. Devignet: High-Resolution Vignetting Removal via a Dual Aggregated Fusion Transformer With Adaptive Channel Expansio, AAAI 2024 (in submission).
- Li Z\*, **Luo S\***, et al. UWFormer: Underwater Image Enhancement via a Semi-Supervised Multi-Scale Transformer,

AAAI 2024 (in submission). (\*Equal Contribution)

- **Luo S**, et al. DocDeshadower: Frequency-aware Transformer for Document Shadow Removal, MMAAsia 24 (in submission).

## WORK EXPERIENCE

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### Software Engineer Intern

**Unionman Technology Co., Ltd, Guangdong**

Jul.2021-Dec.2021

- Led WeChat Mini Program development and conducted application testing.
- Conducted market analysis to identify potential opportunities and formulated technology programs accordingly.
- Provided support to team members and the manager in Linux development, debugging, and Springboot project development.

### Information Technology Intern

**Wuhua Yijian Engineering Co., Ltd, Guangdong**

Sep.2022-Jan.2023

- Contributed to the maintenance and upgrade of the company's network system. This involved tasks such as configuring network connections, managing network equipment, monitoring network performance, and troubleshooting network issues.
- Gained proficiency in fundamental techniques and tools for office management, encompassing office asset management, office safety protocols, and routine office maintenance.

## HONORS AND AWARDS

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- MSc ITM Entrance Scholarship 2023/24 Sep.2023
- Third Prize in the National Youth Innovative Translation Competition June.2022
- Second Prize in Huizhou University Campus Dance Competition Dec.2020
- Excellence Award in Huizhou University New Student Talent Competition Sep.2019

## EXTRACURRICULAR ACTIVITIES

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### Student Affairs

- Organizational department officer Sep.2019-Sep.2020

### Volunteer

- Guitar performer Dec.2019
- Dance performer Dec.2020

## SKILLS

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Python, Pytorch, Latex, OpenCV, Linux