

Shenghong Luo

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

EDUCATION

BEng of Network Engineering (GPA 83/100)
China (Huizhou)

Sep.2019-Jun.2023 Huizhou University,

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

MSc of Information Technology Management
Baptist University, China (Hong Kong)

Sep.2023-Jun.2024 Hong Kong

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

RESEARCH INTEREST

Computer Vision; Low-level Computer Vision; 3D Reconstruction; AI Generated Content.

RESEARCH EXPERIENCE

Research Assistant, University of Macau

Aug.2022-now

- Collaborated extensively on the " DeVigNet " research paper accepted in AAAI2024, actively contributing to the research process and playing a pivotal role in the research. Responsible for model development and experiments. Conduct a comprehensive dataset, encompassing more than 2000 images.
- Conducted comprehensive data collection and rigorous analysis pertaining to vignetting and low-light enhancement, effectively conducting experiments.
- Participating in the "UWFormer" research paper, actively contributing to writing the paper's framework, conducting experiments on more than 10 large datasets, and qualitatively and quantitatively analyzing the final results.
- **Gains:** Through the DeVigNet and UWFormer, I acquired a comprehensive understanding of the entire research process. Gained experience in code programming, encompassing generating motivation, selecting suitable methods, model development, conducting experiments, and creating datasets. Additionally, I am familiar with Transformer, CNN, semi-learning strategy, Diffusion, and application in Low-level Computer Vision.

Research Assistant, Shenzhen Advanced Technology Research Institute, Chinese Academy of Sciences

Feb.2023-now

- Make a contribution to DocDeshadower and ShaDocFormer research papers, encompassing server setting, model development, and experiment implementation.
- Played a pivotal role in DocDeshadower.
- **Gains:** Through participating in research work, I acquired essential knowledge in Pytorch and Latex. Moreover, I gained insights into the SOTA methods in the field of Low-level Computer Vision. Moreover, I gained proficiency in research, particularly in the utilization of LaTeX, thus enhancing my overall comprehension.

PUBLICATIONS

- **Luo S**, et al. Devignet: High-Resolution Vignetting Removal via a Dual Aggregated Fusion Transformer With Adaptive Channel Expansion, AAAI 2024 (Accept)
- Chen W*, Lei Y, **Luo S***, et al. ShaDocFormer: A Shadow-attentive Threshold Detector with Cascaded Fusion Refiner for document shadow removal, IJCNN 2024(Accept)
- Chen X, Lei Y, **Luo S**, et al. UWFormer: Underwater Image Enhancement via a Semi-Supervised Multi-Scale Transformer, IJCNN 2024(Accept)
- 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***, 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)

WORK EXPERIENCE

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

- Hong Kong Baptist University MSc ITM Entrance Scholarship 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

Student Affairs

- Organizational department officer

Sep.2019

Sep.2020

Volunteer

- Guitar performer
- Dance performer

Dec.2019

Dec.2020

SKILLS

Python, Pytorch, Latex, OpenCV, Linux