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; Multi-modal Vision; AI Generated Content; Super Resolution.

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, MMAsia 24 (in submission).

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

➢ 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

Student Affairs

➢ Organizational department officer   Sep.2019-Sep.2020

Volunteer

➢ Guitar performer   Dec.2019

➢ Dance performer   Dec.2020

SKILLS

Python, Pytorch, Latex, OpenCV, Linux