



Huaqiu Li

Residence/domicile: Tsinghua Shenzhen International Graduate School(SIGS)

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Education

Master's degree in Artificial Intelligence

Master's degree program

GPA: 3.93/4.00

Research Area: Low-level Vision, Generative model, self-supervised and unsupervised learning

Tsinghua University

Sep. 2023 - Now

Bachelor's degree in Aircraft Control and Information Engineering

Bachelor's degree program

GPA: 3.79/4.00, Rank: 7/256

CET-6: 573, CET-4: 601

Beihang University

Sep. 2019 - Jun. 2023

Publications

Interpretable Unsupervised Joint Denoising and Enhancement for Real-World low-light Scenarios

Li, H., Hu, X., Wang, H.

First Author, ICLR2025 Publication

- derives a training strategy based on paired sub-images with varying illumination and noise levels, grounded in physical imaging principles and retinex theory.
- was reported by WeChat official accounts and has been forwarded nearly 1000 times.

Prompt-SID: Learning Structural Representation Prompt via Diffusion for Single Image Denoising

Li, H., Zhang, W., Hu, X., Jiang, T., Chen, Z., Wang, H.

First Author, AAAI2025 Publication

- proposes a structural prompt generation model based on latent diffusion and design a structural attention module within the transformer-based denoiser architecture to decode the prompt.
- was reported by a WeChat official account and ResearchGate.

LD-RPS: Zero-Shot Unified Image Restoration via Latent Diffusion Recurrent Posterior Sampling

Li, H., Wang, Y., Huang, T., Huang, H., Wang, H., Chu, X.

First Author, ICCV2025 Under Review

- proposes a novel, dataset-free, and unified image restoration approach through recurrent posterior sampling utilizing a pretrained latent diffusion model.

Measuring and Controlling the Spectral Bias in Self-Supervised Denoising

Zhang, W., Li, H., Hu, X., Chen, Z., Jiang, T., Wang, H.

Co-first Author, ICME2025 Publication

Spatiotemporal Blind-Spot Network with Calibrated Flow for Self-Supervised Video Denoising

Chen, Z., Jiang, T., Hu, X., Zhang, W., Li, H., Wang, H.

AAAI2025 Publication

MMGenBench: Evaluating the Limits of LMMs from the Text-to-Image Generation Perspective

Huang, H., Wang, Y., Huang, Z., Li, H., Huang, T., Chu, X., Zhang, R.

ICCV2025 Under Review

Invited to review for journal TCSVT (Transactions on Circuits and Systems for Video Technology)

Internship experience

Vision generation Intern

Alibaba Group, Amap

Oct. 2024 - Mar. 2025

Beijing, China

- Research internship in multimodal models and diffusion models, encompassing but not limited to cross-modal alignment of text and images and AIGC content generation.
- Edge-Side Multimodal Large Language Models (MM-LLMs).
- During the internship, a first-authored paper was submitted to ICCV 2025.

Projects

Embodied Perception and Trustworthy Decision-Making Based on MLLMs

BYD Auto Industry Company Limited

Mar. 2025 - Now

Shenzhen Major Science and Technology Project

Responsible for multimodal perception processing (including radar, multi-camera RGB, and IMU inputs) to generate information, or to map the large model's text domain.

Honors and Awards

Outstanding Graduate of Beijing	<i>2023</i>
Outstanding Student of Beihang University	<i>2023</i>
First Prize in the 13th China College Student Mathematics Competition (Non-Mathematics)	<i>2021</i>
First Prize in the China College Students' Engineering Practice and Innovation Ability Competition	<i>2023</i>
Academic Excellence Scholarship in Beihang	<i>2020, 2021</i>
Beihang University Outstanding Merit Student (Top 5% university-wide)	<i>2020</i>