

Weilei He

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Education

Wuhan University(WHU) School of Computer Science
Bachelor of Software Engineering
GPA:85/100

Wuhan, China
Sept 2021 - Jun 2025

Pubs and Preprints

Empowering Reliable Visual-Centric Instruction Following in MLLMs [Paper Link] Submitted to ACL Rolling Review 3.33 avg.

Weilei He, Feng Ju, Zhiyuan Fan, Rui Min, Minhao Cheng, Yi R. Fung

Cream: Consistency Regularized Self-Rewarding Language Models [Paper Link] ICLR 2025

Zhaoyang Wang, **Weilei He**, Zhiyuan Liang, Xuchao Zhang, Chetan Bansal, Ying Wei, Weitong Zhang, Huaxiu Yao

HighlightRemover: Spatially Valid Pixel Learning for Image Specular Highlight Removal [Paper Link] ACM Multimedia 2024

Ling Zhang, Yidong Ma, Zhi Jiang, **Weilei He**, Zhongyun Bao, Gang Fu, Wenjun Xu, Chunxia Xiao

Foreground Harmonization and Shadow Generation for Composite Image [Paper Link] ACM Multimedia 2024

Jing Zhou, Ziqi Yu, Zhongyun Bao, Gang Fu, **Weilei He**, Chao Liang, Chunxia Xiao

CFDiffusion: Controllable Foreground Relighting in Image Compositing via Diffusion Model [Paper Link] ACM Multimedia 2024

Ziqi Yu, Jing Zhou, Zhongyun Bao, Gang Fu, **Weilei He**, Chao Liang, Chunxia Xiao

Experience

Research Intern, Graphics and Vision Lab, Wuhan University, Supervisor: **Chunxia Xiao** Feb 2023 - Dec 2024

- Proposed a transformation module to adaptively learn the valid pixels for feature reconstruction
- Constructed a large real-world highlight dataset

Research Intern, University of North Carolina at Chapel Hill, Supervisor: **Huaxiu Yao** Apr 2024 - Dec 2024

- Formulated and analyzed the generalized iterative preference fine-tuning frame work for self-rewarding language model.
- Proposed a consistency regularized self-rewarding language model (CREAM) to regularize the self-rewarding training.

Research Intern, Hongkong University of Science and Technology, Supervisor: **Yi R. (May) Fung** Apr 2025 - Present

- Trustworthy generation of LVLM.

AI Engineer, Wuhan Mercallure Technology Co., Ltd Jun 2024 - Sept 2024

Skills

English Standard Test: TOEFL:100(R:30, L:22, S:24, W:24)

Programming Languages: Python, C++, Java

Tools: Pytorch, Latex, OpenCV, MySQL, Pytorch-Lightning

Awards

Citibank Cup Financial Innovation Competition, Excellent Prize 2024

Chinese National College Student Art Competition, 1st class, chorus group 2023

Wuhan University Basketball Tournament Champion 2022