

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