Weilei He

sanshi10242048@gmail.com

Education

Wuhan University(WHU) School of Computer Science — Wuhan, China
Bachelor of Software Engineering — Sept 2021 - Present
GPA:85/100

Pubs and Preprints

Cream: Consistency Regularized Self-Rewarding Language Models — Submitting to 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 — 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 — 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 — ACM Multimedia 2024

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

Digging Deeper into your interest: Explainable Preference Analytical Recommender — Submitting to KDD 2025

Zhiyuan Liang, Zhaoyang Wang, **Weilei He**, Ziyi Zhao

Experience

Research Intern, Graphics and Vision Lab, Wuhan University, Supervisor: **Chunxia Xiao** — Feb 2023 - Jun 2024
- Proposed a transformation module to adaptively learn the valid pixels for feature reconstruction
- Constructed a large real-world highlight dataset
- Proposed a method for foreground harmonization and cast shadow generation

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

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

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