Weilei He

sanshi10242048@gmail.com | Personal Website | Google Scholar

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 [Paper Link]   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   ACM Multimedia 2024
Removal [Paper Link]

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
[Paper Link]

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

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

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

Digging Deeper into your interest: Explainable Preference Analytical   Submitting to KDD 2025
Recommender [Paper Link]

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, applications of LLMs in real-world scenarios.

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