Zhaokai Wang (王肇凯)

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EDUCATION

Shanghai Jiao Tong University

Joint Ph.D. program with Shanghai AI Laboratory

Peking University

Double bachelor degree in Economics

Beihang University

B.Eng in Computer Science

09/2022 - Present
Advisor: Prof. Jifeng Dai
09/2019 - 06/2022

09/2018 - 06/2022

Overall GPA: 3.80

EXPERIENCE

OpenGVLab, Shanghai AI Laboratory Shanghai Research intern, collaborated with Prof. Jifeng Dai and Dr. Xizhou Zhu 11/2022 - Present Fundamental Vision Group, SenseTime Beijing Research intern, collaborated with Prof. Jifeng Dai and Dr. Xizhou Zhu 02/2022 - 10/2022 Sea AI Lab Remotely at Beijing Research intern, collaborated with Prof. Shuicheng Yan and Dr. Jibin Wu 08/2021 - 02/2022 CoLab, Institute of Artificial Intelligence at Beihang University Beijing Research intern, collaborated with Prof. Si Liu 08/2019 - 06/2022

PUBLICATIONS

1. Mono-InternVL: Pushing the Boundaries of Monolithic Multimodal Large Language Models with Endogenous Visual Pre-training

Gen Luo*, Xue Yang*, Wenhan Dou*, **Zhaokai Wang***, Jiawen Liu, Jifeng Dai, Yu Qiao, Xizhou Zhu arXiv preprint

2. Sparkle: Mastering Basic Spatial Capabilities in Vision Language Models Elicits Generalization to Composite Spatial Reasoning

Yihong Tang*, Ao Qu*, **Zhaokai Wang***, Dingyi Zhuang*, Zhaofeng Wu, Wei Ma, Shenhao Wang, Yunhan Zheng, Zhao Zhao, Jinhua Zhao arXiv preprint

3. Parameter-Inverted Image Pyramid Networks

Xizhou Zhu*, Xue Yang*, **Zhaokai Wang***, Hao Li, Wenhan Dou, Junqi Ge, Lewei Lu, Yu Qiao, Jifeng Dai NeurIPS 2024 **Spotlight (Top 2.5%)**

4. ITINERA: Integrating Spatial Optimization with Large Language Models for Open-domain Urban Itinerary Planning Yihong Tang*, **Zhaokai Wang***, Ao Qu*, Yihao Yan*, Zhaofeng Wu, Dingyi Zhuang, Jushi Kai, Kebing Hou, Xiaotong Guo, Jinhua Zhao, Zhan Zhao, Wei Ma EMNLP 2024

5. Synergizing Spatial Optimization with Large Language Models for Open-Domain Urban Itinerary Planning Yihong Tang*, **Zhaokai Wang***, Ao Qu*, Yihao Yan*, Kebing Hou, Dingyi Zhuang, Xiaotong Guo, Jinhua Zhao, Zhao Zhao, Wei Ma

KDD UrbComp 2024 Best Paper Award

6. Auto MC-Reward: Automated Dense Reward Design with Large Language Models for Minecraft Hao Li*, Xue Yang*, **Zhaokai Wang***, Xizhou Zhu, Jie Zhou, Yu Qiao, Xiaogang Wang, Hongsheng Li, Lewei Lu, Jifeng Dai CVPR 2024

7. Video Background Music Generation: Dataset, Method and Evaluation

Le Zhuo*, **Zhaokai Wang***, Baisen Wang*, Yue Liao, Chenxi Bao, Stanley Peng, Songhao Han, Aixi Zhang, Fei Fang, Si Liu ICCV 2023

8. Video Background Music Generation with Controllable Music Transformer Shangzhe Di, Zeren Jiang, Si Liu, **Zhaokai Wang**, Leyan Zhu, Zexin He, Hongming Liu, Shuicheng Yan ACM Multimedia 2021 **Best Paper Award** (1/542)

 Confidence-aware Non-repetitive Multimodal Transformers for TextCaps Zhaokai Wang, Renda Bao, Qi Wu, Si Liu AAAI 2021

SELECTED AWARDS AND HONORS

Best Paper Award, KDD Urban Computing Workshop (UrbComp) 2024	2024
Best Zero to One Award, Alibaba Creator@AI Entrepreneur Hackathon Finals	2024
Outstanding Graduate of Beihang University	2022
Best Paper Award, ACM Multimedia 2021	2021
Best Video Award, IJCAI 2021 Video Competition	2021
First Place, CVPR TextCaps Challenge	2020

ADDITIONAL INFORMATION

Activities

- Conference Reviewer: ICCV 2023, CVPR 2024 & 2025, ECCV 2024, NeurIPS 2024, EMNLP 2024, AAAI 2025, ICLR 2025.
- Teaching Assistant: Fundamentals of Computers (2021), Software Engineering (2022).

Skills

- Programming languages: Python, C/C++, Java, Javascript.
- Scientific packages: Numpy, Pytorch, Tensorflow.
- English: TOEFL 111 (S26), GRE 327+4.0, CET-4 669, CET-6 612.