

Zhaokai Wang (王肇凯)

Ph.D. candidate at Shanghai Jiao Tong University

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EDUCATION

Shanghai Jiao Tong University, Shanghai	09/2022 - Present
Joint Ph.D. program with Shanghai AI Laboratory	Advisor: Prof. Jifeng Dai
Peking University, Beijing	09/2019 - 06/2022
Double bachelor degree in Economics	
Beihang University, Beijing	09/2018 - 06/2022
B.Eng in Computer Science	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***, 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, Zhan 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**)
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, Kebin 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*, Kebin Hou, Dingyi Zhuang, Xiaotong Guo, Jinhua Zhao, Zhan 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**)
9. 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, 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.