

Zhaokai Wang (王肇凯)

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EDUCATION

Shanghai Jiao Tong University	09/2022 - 06/2027 (Expected)
Ph.D. Student	Advisor: Prof. Jifeng Dai
University College London	12/2025 - Present
Visiting Student	Advisor: Prof. Jun Wang
Peking University	09/2019 - 06/2022
Double Bachelor Degree in Economics	
Beihang University	09/2018 - 06/2022
B.Eng in Computer Science	Overall GPA: 3.80

EXPERIENCE

Centre for Artificial Intelligence, UCL	London
Research Intern, collaborated with Prof. Jun Wang	12/2025 - Present
OpenGVLab (InternVL Team), Shanghai AI Laboratory	Shanghai
Research Intern, collaborated with Prof. Jifeng Dai and Dr. Xizhou Zhu	11/2022 - 11/2025
TuTu. AI (Startup)	Shanghai
Co-founder & Research Scientist	06/2023 - 02/2024
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

AWARDS

• Main Conference	
Best Paper Runner Up Award , NeurIPS 2025	2025
Best Paper Award , ACM Multimedia 2021	2021
• Workshops and Competitions	
Best Paper Award , ICML AI4MATH Workshop 2025	2025
Best Paper Award , IJCAI MKLM Workshop 2025	2025
Best Paper Award , KDD Urban Computing Workshop (UrbComp) 2024	2024
Best Zero to One Award, Alibaba Creator@AI Entrepreneur Hackathon Finals	2024
Best Video Award, IJCAI 2021 Video Competition	2021
First Place, CVPR 2020 TextCaps Challenge	2020

PUBLICATIONS

(*: Co-first authors)

- GenExam: A Multidisciplinary Text-to-Image Exam
Zhaokai Wang, Penghao Yin, Xiangyu Zhao, Changyao Tian, Yu Qiao, Wenhai Wang, Jifeng Dai, Gen Luo
Preprint
- InternVL3.5: Advancing Open-Source Multimodal Models in Versatility, Reasoning, and Efficiency
Weiyun Wang*, Zhangwei Gao*, Lixin Gu*, Hengjun Pu*, Long Cui*, Xingguang Wei*, Zhaoyang Liu*, Linglin Jing*, Shenglong Ye*, Jie Shao*, Zhaokai Wang*, Zhe Chen*, Hongjie Zhang, Ganlin Yang, Haomin Wang, Qi Wei, Jinhui Yin, Wenhao Li, Erfei Cui, Guanzhou Chen, Zichen Ding, Changyao Tian, Zhenyu Wu, Jingjing Xie, Zehao Li, Bowen Yang, Yuchen Duan, Xuehui Wang, Zhi Hou, Haoran Hao, Tianyi Zhang, Songze Li, Xiangyu Zhao, Haodong Duan, Nianchen Deng, Bin Fu, Yinan He, Yi Wang, Conghui He, Botian Shi, Junjun He, Yingdong Xiong, Han Lv, Lijun Wu, Wenqi Shao, Kaipeng Zhang, Huipeng Deng, Bqing Qi, Jiaye Ge, Qipeng Guo, Wenwei Zhang, Songyang Zhang, Maosong Cao, Junyao Lin, Kexian Tang, Jianfei Gao, Haiyan Huang, Yuzhe Gu, Chengqi Lyu, Huanze Tang, Rui Wang, Haijun Lv, Wanli Ouyang, Limin Wang, Min Dou, Xizhou Zhu, Tong Lu, Dahua Lin, Jifeng Dai, Weijie Su, Bowen Zhou, Kai Chen, Yu Qiao, Wenhai Wang, Gen Luo
Technical Report

3. Parameter-Inverted Image Pyramid Networks for Visual Perception and Multimodal Understanding
Zhaokai Wang, Xizhou Zhu, Xue Yang, Gen Luo, Hao Li, Changyao Tian, Wenhan Dou, Junqi Ge, Lewei Lu, Yu Qiao, Jifeng Dai
TPAMI 2025
4. Mono-InternVL-1.5: Towards Cheaper and Faster Monolithic Multimodal Large Language Models
 Gen Luo, Wenhan Dou, Wenhao Li, Zhaokai Wang, Xue Yang, Changyao Tian, Hao Li, Weiyun Wang, Wenhao Wang, Xizhou Zhu, Yu Qiao, Jifeng Dai
 Preprint
5. Does Reinforcement Learning Really Incentivize Reasoning Capacity in LLMs Beyond the Base Model?
 Yang Yue, Zhiqi Chen, Rui Lu, Andrew Zhao, Zhaokai Wang, Yang Yue, Shiji Song, Gao Huang
NeurIPS 2025 Best Paper Runner Up (Top 1 score among 21575 submissions) & ICML 2025 AI4MATH Workshop Best Paper Award (2/172)
6. Multimodal Music Generation with Explicit Bridges and Retrieval Augmentation
 Baisen Wang, Le Zhuo, Zhaokai Wang, Chenxi Bao, Chengjing Wu, Xuecheng Nie, Jiao Dai, Jizhong Han, Yue Liao, Si Liu
ISMIR 2025 LLM4Music Workshop
7. Vision-to-Music Generation: A Survey
 Zhaokai Wang, Chenxi Bao, Le Zhuo, Jingrui Han, Yang Yue, Yihong Tang, Victor Shea-Jay Huang, Yue Liao
ISMIR 2025
8. 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
EMNLP 2025 Findings & IJCAI 2025 MKLM Workshop Best Paper Award
9. 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
CVPR 2025
10. SynerGen-VL: Towards Synergistic Image Understanding and Generation with Vision Experts and Token Folding
 Hao Li, Changyao Tian, Jie Shao, Xizhou Zhu, Zhaokai Wang, Jinguo Zhu, Wenhan Dou, Xiaogang Wang, Hongsheng Li, Lewei Lu, Jifeng Dai
CVPR 2025
11. 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 - Ranked Top 10 in NeurIPS 2024 (among 15671 submissions), Top 2 in Computer Vision Area)
12. 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 Industry Track & KDD 2024 UrbComp Workshop Best Paper Award
13. 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
14. 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
15. 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 (1/1942)
16. Confidence-aware Non-repetitive Multimodal Transformers for TextCaps
Zhaokai Wang, Renda Bao, Qi Wu, Si Liu
AAAI 2021

ADDITIONAL INFORMATION

Talks:

- 2025.4: Talk on Mono-InternVL at Open Multimodal Gathering Workshop hosted by NUS ShowLab.

Activities

- **Conference Reviewer:** ICCV 2023 & 2025, ECCV 2024, CVPR 2024 & 2025, EMNLP 2024, NeurIPS 2024, ICLR 2025, ICML 2025, AAAI 2025.
- **Journal Reviewer:** ACM Computing Survey.
- **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.