ZHAOKAI WANG

Ph.D. student at Shanghai Jiao Tong University

Shanghai, China — wangzhaokai@sjtu.edu.cn — (+86) 13651101915

EDUCATION

Beihang University, Beijing   09/2018 — 06/2022
BS in Computer Science   Overall GPA: 3.80
Peking University, Beijing   09/2019 — 06/2022
Double bachelor degree in Economics
Shanghai Jiao Tong University, Shanghai   09/2022 — Present
Joint Ph.D. program with Shanghai AI Laboratory   Advisor: Prof. Jifeng Dai

EXPERIENCE

CoLab, Institute of Artificial Intelligence at Beihang University   Beijing
Research intern, collaborated with Prof. Si Liu   08/2019 - 06/2022
- Research on computer vision and music generation.

Sea AI Lab   Remotely at Beijing
Research intern, collaborated with Prof. Shuicheng Yan and Dr. Jibin Wu   08/2021 - 02/2022
- Research on music generation.

Fundamental Vision Group, SenseTime   Beijing
Research intern, collaborated with Prof. Jifeng Dai and Dr. Xizhou Zhu   02/2022 - 10/2022
- Research on computer vision.

OpenGVLab, Shanghai AI Laboratory   Shanghai
Research intern, collaborated with Prof. Jifeng Dai   11/2022 - Present
- Research on computer vision.

PUBLICATIONS

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

2. Video Background Music Generation with Controllable Music Transformer   ACM MM 2021 **Best Paper**
   Shangzhe Di, Zeren Jiang, Si Liu, **Zhaokai Wang**, Leyan Zhu, Zexin He, Hongming Liu, Shuicheng Yan

3. Video Background Music Generation: Dataset, Method and Evaluation   ICCV 2023
   Le Zhuo*, **Zhaokai Wang***, Baisen Wang*, Yue Liao, Chenxi Bao, Stanley Peng, Songhao Han, Aixi Zhang, Fei Fang, Si Liu

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

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

SELECTED AWARDS AND HONORS

Best Zero to One Award, Alibaba Creator@AI Entrepreneur Hackathon Finals   2024
Best Paper Award, ACM Multimedia 2021   2021
Best Video Award, IJCAI-21 Video Competition   2021
First place, CVPR TextCaps Challenge (as team leader)   2020
Third place, CVPR TextVQA Challenge (as team leader)   2020

ADDITIONAL INFORMATION

Activities
- **Conference Reviewer:** ICCV 2023, CVPR 2024, ECCV 2024.
- **Teaching Assistant:** Fundamentals of Computers, Software Engineering.
- Vice-minister of Department of Publicity in Honors College Student Union.
- Minister of IT Department in Microsoft Student Club of Beihang University.

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.