ZHUOYAN LUO

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EDUCATION

Tsinghua University Shenzhen International Graduate School   2023 – Present
Master student in Artificial Intelligence, expected June 2026

Southeast University, Computer Science and Engineering Department   2019 – 2023
B.S. in Artificial Intelligence
GPA: 4.08/4.8 Ranking: 5/91

EXPERIENCE

Tencent ARC Laboratory   2024.01 – Present
Research Intern   Adviser: Yixiao Ge

Brief introduction: Core contributor in the Visual Tokenizer training and AutoRegressive Image Generation for the Multi-Modal Large Language Model.
Project Repository: https://github.com/TencentARC/Open-MAGVIT2

PUBLICATIONS

- **Zhuoyan Luo**, Fengyuan Shi, Yixiao Ge, Yujiu Yang, Limin Wang, Ying Shan. OPEN-MAGVIT2: An Open-source Project Toward Democratizing Auto-Regressive Visual Generation. In ***Arxiv***, 2024. (Github Stars 500+)
- **Zhuoyan Luo**, Yinghao Wu, Yong Liu, Yicheng Xiao, Xiao-Ping Zhang, Yujiu Yang. HDC: Hierarchical Semantic Decoding with Counting Assistance for Generalized Referring Expression Segmentation. In ***Arxiv***, 2024.
- Yicheng Xiao*, **Zhuoyan Luo***, Yong Liu, Yue Ma, Hengwei Bian, Yatai Ji, Yujiu Yang, Xiu Li. Bridging the Gap: A Unified Video Comprehension Framework for Moment Retrieval and Highlight Detection. In ***CVPR***, 2024.
- **Zhuoyan Luo**, Yicheng Xiao, Yong Liu, Shuyan Li, Yitong Wang, Yansong Tang, Xiu Li, Yujiu Yang. SOC: Semantic-Assisted Object Cluster for Referring Video Object Segmentation. In ***NeurIPS***, 2023.
- **Zhuoyan Luo**, Yicheng Xiao, Yong Liu, Yitong Wang, Yansong Tang, Xiu Li, Yujiu Yang. 1st Place Solution for Referring Video Object Segmentation. In ***ICCV Workshop***, 2023.
- **Zhuoyan Luo**, Yinghao Wu, Shipeng Zhu, Qi Jing, Zihang Xu, Hui Xue. 2nd Place Solution for Multi-line Handwritten Mathematical Expression Recognition Competition. In ***ICDAR Workshop***, 2023.
- Qipeng Zhu*,**Zhuoyan Luo***, Shipeng Zhu*, Qi Jing, Zihang Xu, Hui Xue. FATE: A Three-Stage Method for Arithmetical Exercise Correction. In the Journal of ***Neural Computing and Applications***, 2023.
- **Zhuoyan Luo** Hui Xue. Deep Neural Network Based Mathematical Exercises Recognition and Automatic Correction Algorithm. China, 202210783495.4.

AWARDS

1st Prize Award on ICCV 2023 The 5th Large-scale Video Object Segmentation Challenge   Oct. 2023
2nd Prize Award on ICDAR 2023 Multi-line Handwritten Mathematical Expression Recognition   Mar. 2023
2nd Prize Award on iFLYTEK A.I. Handwritten Mathematical Expression Recognition   Nov. 2022
Bronze Prize Award on XIB Competition   May 2024
National Scholarship   2021-2022
Principal Scholarship   2022-2023

PERSONAL

- Research Interest: Multi-Modal Understanding & Generation
- Great Teamwork and Compressive Ability