Kaining Ying

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EDUCATION

Ph.D. College of Computer Science and Artificial Intelligence, Fudan University, 2024–
Supervised by Prof. Henghui Ding
Research Topic: Multimodal Visual Segmentation

M.E. College of Computer Science and Technology, Zhejiang University of Technology, 2021–2024
Supervised by Prof. Zhenhua Wang
Research Topic: Instance Segmentation

B.E. College of Computer Science and Technology, Zhejiang University of Technology, 2017–2021
Supervised by Prof. Zhenhua Wang
Research Topic: Instance Segmentation, Thesis

RESEARCH EXPERIENCES

2023–2024 OpenGVLab, Shanghai Artificial Intelligence Laboratory
Research Intern, work with Dr. Kaipeng Zhang, Dr. Wenqi Shao and Prof. Ping Luo
Research Topic: Evaluation of Large Vision-Language Models

2022–2023 State Key Lab of CAD & CG, Zhejiang University
Visiting Student, supervised by Prof. Chunhua Shen and Prof. Hao Chen
Research Topic: Video Instance Segmentation

RESEARCH AREAS

Multimodal LLM Evaluation

Segmentation: instance segmentation and video segmentation

PUBLICATIONS

* and † indicate equal contributions and corresponding authors respectively.

Paper'25 H. Hu, K. Ying, H. Ding†. (2025), "Segment Anything Across Shots: A Method and Benchmark".

Paper'25 H. Ding*, K. Ying*, C. Liu, S. He, X. Jiang, Y.G. Jiang, P. H. S. Torr, S. Bai. (2025), "MOSEv2: A More Challenging Dataset for Video Object Segmentation in Complex Scenes".

TPAMI'25 H. Ding, C. Liu, S. He, K. Ying, X. Jiang, C.C. Loy, Y.G. Jiang (2025), "MeViS: A Multi-Modal Dataset for Referring Motion Expression Video Segmentation", *IEEE Trans. Pattern Analysis and Machine Intelligence*.

ICCV'25 K.Ying*, H. Hu*, H. Ding† (2025), "MOVE: Motion-Guided Few-Shot Video Object Segmentation", In: *Proc. Int. Conf. Computer Vision*.

ICCV'25 K.Ying, H. Ding†, G. Jie, Y.G. Jiang (2025), "Towards Omnimodal Expressions and Reasoning in Referring Audio-Visual Segmentation", In: *Proc. Int. Conf. Computer Vision*.

NeurIPS'24 S. Liu, K. Ying, H. Zhang, Y. Yang, Y. Lin, T. Zhang, C. Li, Y. Qiao, P. Luo, W. Shao, K. Zhang (2024), "ConvBench: A Multi-Turn Conversation Evaluation Benchmark with Hierarchical Capability for Large Vision-Language Models", In: *Proc. Advances in Neural Information Processing Systems*, Spotlight.

ICML'24 K. Ying*, F. Meng*, J. Wang*, Z. Li, H. Lin, Y. Yang, H. Zhang, W. Zhang, Y. Lin, S. Liu, J. Lei, Q. Lu, P. Gao, R. Chen, P. Xu, R. Zhang, H. Zhang, Y. Wang, Y. Qiao, P. Luo, K. Zhang, W. Shao (2024), "MMT-Bench: A Comprehensive Multimodal Benchmark for Evaluating Large Vision-Language Models Towards Multitask AGI", In: *Proc. Int. Conf. Machine Learning*.

ICONIP'23 Z. Wang, K. Ying, J. Meng, J. Ning (2023), "Human-to-Human Interaction Detection", In: *Proc. Int. Conf. on Neural Information Processing*, Oral.

ICCV'23 K. Ying*, Q. Zhong*, W. Mao, Z. Wang†, H. Chen†, L.Y. Wu, Y. Liu, C. Fan, Y. Zhuge, C. Shen (2023), "CTVIS: Consistent Training for Online Video Instance Segmentation", In: *Proc. Int. Conf. Computer Vision*.

TPAMI'23 J. Meng, Z. Wang†, K. Ying, J. Zhang, D. Guo, Z. Zhang, Q. Shi, S. Chen (2023), "Human Interaction Understanding with Consistency-Aware Learning", *IEEE Trans. Pattern Analysis and Machine Intelligence*.

TNNLS'22 P. Zhou*, K. Ying*, Z. Wang, D. Guo, C. Bai†, (2022) "Self-supervised Enhancement for Named Entity Disambiguation via Multimodal Graph Convolution", *IEEE Trans. on Neural Networks and Learning Systems*.

ICASSP'22 K. Ying, Z. Wang, C. Bai, P. Zhou (2022), "ISDA: Position-Aware Instance Segmentation with Deformable Attention", In: *Proc. Int. Conf. on Acoustics, Speech, and Signal Processing*, Oral.

AWARDS AND HONORS

2023 2nd Place in The 5th Large-scale Video Object Segmentation Challenge - Track 2: Video Instance Segmentation at ICCV 2023, Solution, Leaderboard, Certificate

2023 2nd Place in Pixel-level Video Understanding Challenge (VPS Track) at CVPR 2023, Solution, Leaderboard, Certificate

2022 Distinguished Graduate Student of the College

2022 National Award Scholarship (Top 1)

SERVICE

Peer Review

Journal: TIP, TMM, PR, Machine Vision and Applications, IET Computer Vision
Conference: ICME (2023), ACM MM (2023, 2024, 2025), AAAI (2024, 2025, 2026), CVPR (2024), ICCV (2025), NeurIPS (2024, 2025), AISTATS (2025)

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