# Kaining Ying

College of Computer Science and Technology
Zhejiang University of Technology

kaining.ying.cv@gmail.com
+86 17857345007
kainingying.github.io

## EDUCATION

**M.E.**    College of Computer Science and Technology, Zhejiang University of Technology, 2021–
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–**    OpenGVLab, Shanghai Artificial Intelligence Laboratory
Research Intern, supervised by Dr. Kaipeng Zhang and Dr. Wenqi Shao
Research Topic: Multimodal Large Language Models

**2022–**    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 LLMs: alignment, pretrain, instruct tuning

Segmentation: instance segmentation and video segmentation

## PUBLICATIONS

$*$ and $\dagger$ indicate equal contributions and corresponding authors respectively.

**ICONIP'23**    Zhenhua Wang, **Kaining Ying**$^{\dagger}$, Jiajun Meng, Jifeng Ning.
"Human-to-Human Interaction Detection."
Paper

**ICCV'23**    **Kaining Ying**$^{*}$, Qing Zhong$^{*}$, Weian Mao, Zhenhua Wang$^{\dagger}$, Hao Chen$^{\dagger}$, Lin Yuanbo Wu, Yifan Liu, Chenxiang Fan, Yunzhi Zhuge, Chunhua Shen.
"CTVIS: Consistent Training for Online Video Instance Segmentation."
**Note**: CTVIS placed 2nd in both the VIS challenge at ICCV 2023 and the VPS challenge at CVPR 2023.
Paper, Code, Demo

**TPAMI'23**    Jiajun Meng, Zhenhua Wang$^{\dagger}$, **Kaining Ying**, Jianhua Zhang, Dongyan Guo, Zhen Zhang, Qinfeng Shi, Shengyong Chen.
"Human Interaction Understanding with Consistency-Aware Learning."
Paper, Code

TNNLS'22  Pengfei Zhou*, **Kaining Ying***, Zhenhua Wang, Dongyan Guo, Cong Bai[†].
"Self-supervised Enhancement for Named Entity Disambiguation via Multimodal Graph Convolution."
Paper, Code

ICASSP'22  **Kaining Ying**, Zhenhua Wang[†], Cong Bai, Pengfei Zhou.
"ISDA: Position-Aware Instance Segmentation with Deformable Attention."
Paper, Code, Presentation

## 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

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**

*IEEE Transactions on Multimedia*

*IEEE International Conference on Multimedia and Expo, 2023*

*ACM International Conference on Multimedia, 2023*

*AAAI Conference on Artificial Intelligence, 2024*