

# JIAHAO NIE

jiahao007[at]e.ntu.edu.sg [◇ Website](#) [◇ Google Scholar](#)

Nanyang Technological University, 50 Nanyang Avenue, Singapore, 639798

## EDUCATION

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**Nanyang Technological University, Singapore**

*Jan. 2023 - Present*

Ph.D. Candidate in Computer Science

**Supervisors:** Prof. Shijian Lu, Prof. Yap-Peng Tan, and Prof. Alex C. Kot

GPA: 4.5/5.0

**Nanyang Technological University, Singapore**

*Aug. 2021 - Aug. 2022*

M.S. in Signal Processing

GPA: 4.63/5.0

**Northwestern Polytechnical University, China**

*Sep. 2016 - Jun. 2020*

B.ENG. in Information Engineering

**Outstanding Graduate**

GPA: 88/100   Ranking: Top 10%

## WORKING

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**TeleAI, China Telecom, China**

*Jan. 2026 - Present*

AI Algorithm Intern

**Supervisor:** Dr. Qingsong Zhao

**Nanyang Technological University, Singapore**

*Aug. 2023 - Dec. 2023*

Research Assistant & Research Associate

**Supervisor:** Prof. Alex C. Kot

**Northwestern Polytechnical University, China**

*Sep. 2020 - Jul. 2021*

Research Assistant

**Supervisor:** Prof. Jie Chen

**Tsinghua University**

*Jul. 2019 - Aug. 2019*

Research Assistant

**Supervisor:** Prof. Qi Wei

## PREPRINT & PUBLICATION

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\* Equal contribution   † Corresponding author

**Boosting SAM for Cross-Domain Few-Shot Segmentation via Conditional Point Sparsification**

*J Nie\*, Y Xing\*, W An, Q Zhao, J Shao, YP Tan, AC Kot, S Lu, X Li*

*arXiv:2602.05218*

**Cross-Domain Few-Shot Segmentation via Multi-view Progressive Adaptation**

*J Nie\*, G Fu\*, W An, YP Tan, AC Kot, S Lu*

*CVPR 2026*

**E.M.Ground: A Temporal Grounding Vid-LLM with Holistic Event Perception and Matching**

*J Nie\*, W An\*, G Zhang, Y Xu, YP Tan, AC Kot, S Lu*

*arXiv:2602.05215*

**MMRel: A Relation Understanding Benchmark in the MLLM Era**

*J Nie\*, G Zhang\*, W An\*, Y Xing\*, YP Tan, AC Kot, S Lu*

*arXiv 2406.09121*

**Cross-Domain Few-Shot Segmentation via Iterative Support-Query Correspondence Mining**

*J Nie\*, Y Xing\*, G Zhang, P Yan, A Xiao, YP Tan, AC Kot, S Lu*

*CVPR 2024*

**Color Space Learning for Cross-Color Person Re-Identification**

*J Nie, S Lin, AC Kot*

*ICME 2024 (Oral)*

**Enhancing Retrieval-Augmented Large Vision Language Models via Knowledge Conflict Mitigation**

*W An\*, J Nie\*, F Tian, M Cai, Y Wu, X Zhang, S Lu*

*AAAI 2026*

**Boosting Knowledge Utilization in Multimodal Large Language Models via Adaptive Logits Fusion and Attention Reallocation**

*W An\*, J Nie\*, F Tian, H Lin, M Cai, Y Wu, Q Wang, X Zhang, S Lu*

*NeurIPS 2025 (Oral)*

**Empowering Multimodal LLMs with External Tools: A Comprehensive Survey**

*W An\*, J Nie\*, Y Wu, F Tian, S Lu, Q Zheng*

*arXiv 2508.10955*

**Multi-Grained Text-Guided Image Fusion for Multi-Exposure and Multi-Focus Scenarios**

*M Tang, J Nie†, G Yang, Z Cui, J Li*

*WACV 2026*

**Unleashing the Potential of Model Bias for Generalized Category Discovery**

*W An, H Lin, J Nie, F Tian, W Shi, Y Wu, Q Wang, P Chen*

*AAAI 2025*

**Mitigating Object Hallucinations in Large Vision-Language Models with Assembly of Global and Local Attention**

*W An, F Tian, S Leng, J Nie, H Lin, Q Wang, G Dai, P Chen, S Lu*

*CVPR 2025*

**Knowledge Acquisition Disentanglement for Knowledge-based Visual Question Answering with Large Language Models**

*W An, F Tian, J Nie, W Shi, H Lin, Y Chen, Q Wang, Y Wu, G Dai, P Chen*

*arXiv 2407.15346*

**Advancing Cross-domain Discriminability in Continual Learning of Vision-Language Models**

*Y Xu\*, Y Chen\*, J Nie, Y Wang, H Zhuang, M Okumura*

*NeurIPS 2024*

**Rewrite Caption Semantics: Bridging Semantic Gaps for Language-Supervised Semantic Segmentation**

*Y Xing, J Kang, A Xiao, J Nie, L Shao, S Lu*

*NeurIPS 2023*

**A Novel 3D Convolutional Neural Network for Action Recognition in Infrared Videos**

*J Nie, L Yan, X Wang, J Chen*

*ICICSP 2021*

## RESEARCH INTEREST

Computer Vision, Artificial Intelligence, Multi-Modal Large Language Models

## MISCELLANEOUS

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### **Reviewer:**

TMM, CVPR, NeurIPS, AAAI, ICLR, ACCV, ICME

### **Teaching:**

SC2079 Multi-Disciplinary Design Project, NTU, 2023 Fall, 2024 Spring

SC1003 Introduction to Computational Thinking and Programming, NTU, 2024 Fall

### **Activity:**

Vice Chairman of Student Union, School of Marine Science and Technology, NWPU, 2017-2019

## HONOR & AWARD

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<b>NTU IGP Research Excellence Award</b>	<i>2024</i>
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<b>NTU IGP Research Scholarship</b>	<i>2023-2027</i>
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<b>NWPU Outstanding Graduate of the University</b> (Top 6% student)	<i>2020</i>
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<b>NWPU Outstanding Graduate of the School</b> (Top 15% student)	<i>2020</i>
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<b>NWPU School-level Outstanding Student Award</b> (three times & Top 15% student)	<i>2017 - 2019</i>
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<b>NWPU Special Scholarships</b> (four times & Top 8% student)	<i>2017 - 2019</i>
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<b>Four national awards,</b> including China Marine Vehicle Design and Manufacture Contest Outstanding Winner	<i>2017 - 2019</i>
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