

JIAHAO NIE

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Nanyang Technological University, 50 Nanyang Avenue, Singapore, 639798

EDUCATION

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

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

* 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 Logistics 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

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

NTU IGP Research Excellence Award 2024

NTU IGP Research Scholarship 2023-2027

NWPU Outstanding Graduate of the University (Top 6% student) 2020

NWPU Outstanding Graduate of the School (Top 15% student) 2020

NWPU School-level Outstanding Student Award (three times & Top 15% student) 2017 - 2019

NWPU Special Scholarships (four times & Top 8% student) 2017 - 2019

Four national awards,

including China Marine Vehicle Design and Manufacture Contest Outstanding Winner 2017 - 2019