

JIAHAO NIE

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Nanyang Technological University, 50 Nanyang Avenue, Singapore, 639798

EDUCATION

Nanyang Technological University (NTU), Singapore

Jan. 2023 - Present

Ph.D. in Computer Science

Supervisors: [Prof. Shijian Lu](#) and [Prof. Yap-Peng Tan](#)

GPA: 4.75/5.0

Nanyang Technological University (NTU), Singapore

Aug. 2021 - Aug. 2022

M.S. in Signal Processing

GPA: 4.63/5.0

Northwestern Polytechnical University (NWPU), China

Sep. 2016 - Jun. 2020

B.ENG. in Information Engineering

Outstanding Graduate

GPA: 88/100 Ranking: Top 10%

RESEARCH EXPERIENCE

Research Interest

Computer Vision, Artificial Intelligence

Rapid-Rich Object Search Lab, NTU

M.S. Dissertation Project & Research Associate

Sep. 2021 - Dec. 2022

Supervisors: [Prof. Yap-Peng Tan](#), [Prof. Alex Kot](#), and [Dr. Shan Lin](#)

Center of Intelligent Acoustics and Immersive Communications, NWPU

Research Assistant

Aug. 2020 - Jul. 2021

Supervisor: [Prof. Jie Chen](#)

Navigation Technology Engineering Center Laboratory, Tsinghua University

Summer Intern

Jul. 2019 - Aug. 2019

Supervisor: [Prof. Qi Wei](#)

PUBLICATION

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*

IEEE/CVF Conference on Computer Vision and Pattern Recognition, **CVPR 2024**

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

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

Conference on Neural Information Processing Systems, **NeurIPS 2023**

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

J Nie, L Yan, X Wang, J Chen

IEEE International Conference on Information Communication and Signal Processing, **ICICSP 2021**

MISCELLANEOUS

Reviwer:

ICME 2024

Teaching:

SC2079/CE3004/CZ3004 Multi-Disciplinary Design Project, NTU, 2023 Fall, 2024 Spring

Activity:

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

HONOR & AWARD

NTU IGP Research Scholarship	<i>2023-2027</i>
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NWPU Outstanding Graduate of the University (Top 6% student)	<i>2020</i>
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NWPU Outstanding Graduate of the School (Top 15% student)	<i>2020</i>
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NWPU School-level Outstanding Student Award (three times & Top 15% student)	<i>2017 - 2019</i>
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NWPU Special Scholarships (four times & Top 8% student)	<i>2017 - 2019</i>
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Four national awards,

including China Marine Vehicle Design and Manufacture Contest Outstanding Winner	<i>2017 - 2019</i>
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