

# JIAHAO NIE

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

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: 4.5/5.0

**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**

---

<b>NTU IGP Research Scholarship</b>	<i>2023-2027</i>
-------------------------------------	------------------

<b>NWPU Outstanding Graduate of the University</b> (Top 6% student)	<i>2020</i>
---	-------------

<b>NWPU Outstanding Graduate of the School</b> (Top 15% student)	<i>2020</i>
--	-------------

<b>NWPU School-level Outstanding Student Award</b> (three times & Top 15% student)	<i>2017 - 2019</i>
--	--------------------

<b>NWPU Special Scholarships</b> (four times & Top 8% student)	<i>2017 - 2019</i>
--	--------------------

**Four national awards,**

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