

# Yukun Tian, Undergraduate.

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ORCID

GitHub

Personal Website



## Working Experience

- 2023 – now **Leader of Computer Vision Group**, 3SE Robotics Team, Southeast University.
- 2024.7 – 2024.9 **AI Engineer(Intern)**, NAIE department, Huawei Nanjing Research & Development Center, Huawei Technologies Co., Ltd.

## Education

- 2022 – now **Undergraduate. Artificial Intelligence, Southeast University**  
GPA: 3.85 / 4.0 (Currently); Average Score: 90.59 / 100 (Currently);

## Academic Performance

### Conference Proceedings (Submitted)

- 1 **Y. Tian**, H. Chen, Y. Deng, *et al.*, “Eventaug: Multifaceted spatio-temporal data augmentation methods for event-based learning,” in *The 39th Annual AAAI Conference on Artificial Intelligence*, 2025. eprint: arXiv:2409.11813.

### Research Program

- 1 Y. Jin, **Y. Tian**, and K. Fang, *Design of an autonomous decision-making navigation and precision strike robot based on laser slam and machine vision*, National Student Research Training Project, 202310286114Z, 2022–2024.
- 2 X. Li, **Y. Tian**, R. Xu, and B. Wang, *Design and application of motion target identification and prediction models for low-latency scenarios*, Student Research Training Project of Jiangsu Province, 202410286240Y, 2023–2025.
- 3 **Y. Tian**, *Event-guided multimodal fusion video camouflage object detection method*, Ministry of Education Key Laboratory Open Project for Young Scholars, aiaa-24-07, 2024–2026.
- 4 **Y. Tian**, H. Chen, and Y. Deng, *One4all: Unified multi-modal spatio-temporal transformer encoder for event-rgb*, Plan to submit to CVPR 2025 or IJCAI 2025, 2024–now.
- 5 **Y. Tian**, H. Gong, and R. Zhou, *High-performance heterogeneous collaborative computing system for mobile cpus and gpus for complex deep neural networks*, Student Research Training Project of Jiangsu Province, 202410286248Y, Plan to submit to MobiCom 2025, 2023–2025.

### Patent

- 1 H. Chen and **Y. Tian**, “A saliency-guided spatiotemporal mask data augmentation method and system for event cameras (pat. pend.),” Aug. 21, 2024.
- 2 H. Chen and **Y. Tian**, “An adaptive multi-scale aggregation data augmentation method and system for event cameras (pat. pend.),” Aug. 21, 2024.

## Skills

Areas	Machine Vision, Machine Learning, Robotics, Multi-modal Learning, Event Vision.
Coding	Python(Pytorch), C/C++, HTML, CSS, AscendC & CCE, $\LaTeX$ , Markdown, ...
Languages	Strong reading, writing and speaking competencies for English and Mandarin Chinese.
Misc.	Self-motivated, Team-oriented, Internationally experienced (visited 7 countries).

## Representative Courses

### Major Courses

Machine Learning	97 / 100. (Top 1)
Pattern Recognition	90 / 100.
Optimization Method	91 / 100
Introduction to Artificial Intelligence	98 / 100 (Top 1)
Data Structure	100 / 100 (Top 1)
Operating System	97 / 100 (Top 1%)

### Public Courses

Programming & Algorithmic Language i & ii	93 / 100 & 95 / 100
Discrete Mathematics	94 / 100
Linear Algebra	98 / 100 (Top 1%)

## Awards and Honors

### Awards

2024	<b>RoboMaster University Championship, Final Tournament (2024, Responsible for Vision Tasks)</b> , National First Prize (Best in school history).
	<b>RoboMaster University Championship, Regional Competition (2024, Responsible for Vision Tasks)</b> , Provincial First Prize.
2023	<b>RoboMaster University League, Shanghai Province (2024, Responsible for Vision Tasks)</b> , Provincial Third Prize.
	<b>2023 13th China Educational Robot Competition Regular &amp; Challenge Seasons (As Captain)</b> , National Special Prize & National First Prize. (Champion)
	<b>RoboMaster University League, Jiangsu Province (2023, Responsible for Motion Control)</b> , Provincial Second Prize.
2022	<b>2022 12th China Educational Robot Competition Regular &amp; Challenge Seasons (As Captain)</b> , National Special Prize & National First Prize. (Champion)

### Honors

2024	<b>Star of Innovation.</b> Awarded by Southeast University to top 10 undergraduates.
	<b>National Scholarship.</b> Awarded by Ministry of Education of the People's Republic of China.
	<b>Outstanding Student.</b> Awarded by Huawei during my internship.
2023	<b>President's Scholarship.</b> Awarded by Southeast University.
	<b>Merit Student.</b> Awarded by Southeast University.