




# Shiyu Hu (胡世宇)

Research Fellow, Nanyang Technological University, Singapore



 1995.10.29    shiyu.hu@ntu.edu.sg    hushiyu1995    huuuuusy  
 <https://huuuuusy.github.io/>    Google Scholar






## Work Experience

- 2024.08 - Now  **Research Fellow, School of Physical and Mathematical Sciences (SPMS), Nanyang Technological University (NTU)**
- **Direction:** AI4Science, Computer Vision
  - **PI:** Assoc Prof. Kang Hao Cheong (IEEE Senior Member)
- 2018.03 - 2018.11  **Research Assistant, University of Hong Kong (HKU)**
- **Direction:** High Performance Computing, Heterogeneous Computing
  - **PI:** Prof. Choli Wang
- 2016.08 - 2016.09  **Research Intern, Institute of Electronics, Chinese Academy of Sciences (CASIE)**

## Education Background

- 2019.09 - 2024.01  **Ph.D, Institute of Automation, Chinese Academy of Sciences (CASIA)**
- **Major:** Computer Applied Technology
  - **Supervisor:** Prof. Kaiqi Huang (IAPR Fellow, IEEE Senior Member)
  - **Co-supervisor:** Prof. Xin Zhao (IEEE Senior Member)
  - **Thesis title:** *Research of Intelligence Evaluation Techniques for Single Object Tracking*
  - **Thesis committee:** Prof. Jianbin Jiao, Prof. Yuxin Peng (CAAI/CIE/CSIG Fellow), Prof. Yao Zhao (IEEE/IET Fellow), Prof. Yunhong Wang (IEEE/IAPR/CCF Fellow), Prof. Ming Tang
  - **Thesis defense grade:** Excellent
- 2017.09 - 2019.07  **M.Sc., Department of Computer Science, University of Hong Kong (HKU)**
- **Major:** Computer Science
  - **Supervisor:** Prof. Choli Wang
  - **Thesis title:** *NightRunner: Deep Learning for Autonomous Driving Cars after Dark*
  - **Thesis defense grade:** A+
- 2013.09 - 2017.07  **B.E., Elite Class in School of Information and Electronics, Beijing Institute of Technology (BIT)**
- **Major:** Information Engineering
  - **Diploma project supervisor:** Prof. Senlin Luo
  - **Thesis title:** *Text Sentiment Analysis Based on Deep Neural Network*
  - **Thesis defense grade:** Excellent
- 2015.07 - 2015.08  **Summer Semester, University of California, Berkeley (UCB)**
- **Major:** New Media
  - **Course grade:** A

## Research Foundation & Interests

- Visual Intelligence  Focuses on visual intelligence as the core channel to study how AI systems perceive, reason, and interpret in complex environments.
-  Builds interpretable and generalizable cognitive evaluation frameworks under the “Environment–Task–Executor” paradigm.
  -  Explores unified quantitative models for robustness, generalization, and safety, promoting a paradigm shift from performance-driven to cognition-driven evaluation.

## Research Foundation & Interests (continued)





- Investigates human-referenced measurement principles of intelligence to support the development of human-AI integrated cognitive systems.
- Multimodal Cognition
  - Investigates the structural role of vision within multimodal cognition, exploring unified mechanisms for cross-modal fusion and spatiotemporal reasoning.
  - Develops multiscale models from perception to semantics to reveal intrinsic connections among vision, language, and knowledge.
  - Studies semantic diversity, causal associations, and narrative generation to build explainable and generalizable multimodal understanding frameworks.
  - Advances visual understanding from static perception toward dynamic cognition, providing a structural foundation for next-generation multimodal intelligence.
- AI4Education
  - Positions educational environments as ideal domains for studying human-AI co-evolution and cognitive learning mechanisms.
  - Focuses on intelligent agents with personality, cognition, and social adaptability, emphasizing cognitive tracking, personalized feedback, and adaptive learning.
  - Explores multi-agent collaboration and reflective learning mechanisms, enabling human-AI interaction with understanding, empathy, and shared growth.
  - Promotes the transformation of educational AI from an assistive tool to a cognitive partner, fostering educational equity, innovation, and sustainable learning.
- AI4Science
  - Explores the cognitive modeling pathways of AI in scientific discovery, experimental design, and knowledge reasoning.
  - Studies AI's cognitive role in scientific understanding, data modeling, and hypothesis generation, abstracting cognitive principles from human reasoning.
  - Constructs integrated vision-language-symbol frameworks for scientific intelligence, bridging computational learning and human scientific cognition.
  - Advances interdisciplinary applications of AI in education, medicine, psychology, and cognitive science toward the co-evolution of artificial and human intelligence.

## Research Publications

### Book

- 1 X. Zhao, **S. Hu**, and X. Yin, *Visual Object Tracking - An Evaluation Perspective*. Springer, 2025, ISBN: 978-981-96-4558-9.

### Accept

- 1 **S. Hu**, X. Zhao, L. Huang, and K. Huang, "Global instance tracking: Locating target more like humans," *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI, CCF-A)*, vol. 45, no. 1, pp. 576–592, 2023.  DOI: 10.1109/TPAMI.2022.3153312.
- 2 **S. Hu**, X. Zhao, and K. Huang, "Sotverse: A user-defined task space of single object tracking," *International Journal of Computer Vision (IJCV, CCF-A)*, vol. 132, pp. 872–930, 2024.  DOI: 10.1007/s11263-023-01908-5.
- 3 X. Zhao, **S. Hu** , Y. Wang, J. Zhang, Y. Hu, R. Liu, H. Ling, Y. Li, R. Li, K. Liu, and J. Li, "Biodrone: A bionic drone-based single object tracking benchmark for robust vision," *International Journal of Computer Vision (IJCV, CCF-A)*, vol. 132, pp. 1659–1684, 2024.  DOI: 10.1007/s11263-023-01937-0.
- 4 **S. Hu**, D. Zhang, M. Wu, X. Feng, X. Li, X. Zhao, and K. Huang, "A multi-modal global instance tracking benchmark (mgit): Better locating target in complex spatio-temporal and causal relationship," in *Conference on Neural Information Processing Systems (NeurIPS, CCF-A, Poster)*, vol. 36, 2023, pp. 25 007–25 030.

- 5 X. Feng\*, **S. Hu\***, X. Li, D. Zhang, M. Wu, J. Zhang, X. Chen, and K. Huang, "Atctrack: Aligning target-context cues with dynamic target states for robust vision-language tracking," *International Conference on Computer Vision (ICCV, CCF-A, Highlight)*, 2025.
- 6 **S. Hu**, X. Zhao, and K. Huang, "Visual intelligence evaluation techniques for single object tracking: A survey," *Journal of Images and Graphics* (《中国图象图形学报》), CCF-B), 2023.
- 7 X. Li, X. Li, and **S. Hu** ✉, "Darter: Dynamic adaptive representation tracker for nighttime uav tracking," in *International Conference on Multimedia Retrieval (ICMR, CCF-B)*, 2025.
- 8 Y. Wang, J. Zhang, Y. Wang, **S. Hu** ✉, B. Shen, Z. Hou, and W. Zhou, "Improved sar aircraft detection algorithm based on visual state space models," *IET Computer Vision (IET-CVI, CCF-C)*, 2025.
- 9 X. Li, X. Li, **S. Hu**, K. Huang, and W. Zhang, "Causalstep: A benchmark for explicit stepwise causal reasoning in videos," in *AAAI Conference on Artificial Intelligence (AAAI, CCF-A, Oral)*, 2026.
- 10 X. Li, X. Li, **S. Hu**, Y. Guo, and W. Zhang, "Verifybench: A systematic benchmark for evaluating reasoning verifiers across domains," in *AAAI Conference on Artificial Intelligence (AAAI, CCF-A, Oral)*, 2026.
- 11 X. Feng, D. Zhang, **S. Hu**, X. Li, M. Wu, J. Zhang, X. Chen, and K. Huang, "Cstrack: Enhancing rgb-x tracking via compact spatiotemporal features," in *International Conference on Machine Learning (ICML, CCF-A, Poster)*, 2025.
- 12 D. Zhang, **S. Hu**, X. Feng, X. Li, M. Wu, J. Zhang, and K. Huang, "Beyond accuracy: Tracking more like human via visual search," in *Conference on Neural Information Processing Systems (NeurIPS, CCF-A, Poster)*, 2024.
- 13 X. Feng, X. Li, **S. Hu**, D. Zhang, M. Wu, J. Zhang, X. Chen, and K. Huang, "Memvlt: Visual-language tracking with adaptive memory-based prompts," in *Conference on Neural Information Processing Systems (NeurIPS, CCF-A, Poster)*, 2024.
- 14 X. Feng, D. Zhang, **S. Hu**, X. Li, M. Wu, J. Zhang, X. Chen, and K. Huang, "Enhancing vision-language tracking by effectively converting textual cues into visual cues," in *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP, CCF-B, Poster)*, 2025.
- 15 J. Zhang, T. Zhao, **S. Hu**, and X. Zhao, "Robust single-particle cryo-em image denoising and restoration," in *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP, CCF-B, Poster)*, 2024.
- 16 M. Wu, K. Huang, Y. Cai, **S. Hu**, Y. Zhao, and W. Wang, "Finger in camera speaks everything: Unconstrained air-writing for real-world," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT, CCF-B)*, 2024.
- 17 M. Wu, Y. Kang, X. Li, **S. Hu**, X. Chen, Y. Kang, W. Wang, and K. Huang, "Vs-llm: Visual-semantic depression assessment based on llm for drawing projection test," in *Chinese Conference on Pattern Recognition and Computer Vision (PRCV, CCF-C, Poster)*, 2024.
- 18 X. Feng, **S. Hu**, X. Chen, and K. Huang, "A hierarchical theme recognition model for sandplay therapy," in *Chinese Conference on Pattern Recognition and Computer Vision (PRCV, CCF-C, Poster)*, 2023, pp. 241–252. [DOI: 10.1007/978-981-99-8462-6\\_20](https://doi.org/10.1007/978-981-99-8462-6_20).
- 19 Y. Zhang, C. Liu, W. Chen, X. Xu, F. Wang, H. Li, **S. Hu**, and X. Zhao, "Revisiting instance search: A new benchmark using cycle self-training," *Neurocomputing (Neu, CCF-C)*, vol. 501, pp. 270–284, 2022. [DOI: 10.1016/j.neucom.2022.06.027](https://doi.org/10.1016/j.neucom.2022.06.027).
- 20 K. Huang, X. Zhao, Q. Li, and **S. Hu**, "Visual turing: The next development of computer vision in the view of human-computer gaming," *Journal of Graphics* (《图学学报》), CCF-C), vol. 42, no. 3, p. 339, 2021. [DOI: 10.11996/JG.j.2095-302X.2021030339](https://doi.org/10.11996/JG.j.2095-302X.2021030339).
- 21 L. Tan, **S. Hu**, D. J. Yeo, and K. H. Cheong, "Artificial intelligence-enabled adaptive learning platforms: A review," *Computers & Education: Artificial Intelligence (C&E:AI)*, p. 100 429, 2025.


- 22 L. Tan, **S. Hu**, D. J. Yeo, and K. H. Cheong, "A comprehensive review on automated grading systems in stem using ai techniques," *Mathematics* (2227-7390), vol. 13, no. 17, 2025.
- 23 Y. Ma, X. Li, **S. Hu**, S. Liu, and K. H. Cheong, "Trustworthy ai in education: Framework, cases, and governance strategies," *Innovation and Emerging Technologies*, vol. 12, p. 2 550 026, 2025.
- 24 K. Huang, Y. Kang, C. Yan, **S. Hu**, L. Wang, T. Tao, and W. Gao, "A review of intelligent psychological assessment based on interactive environment," *Chinese Mental Health Journal* (《中国心理卫生杂志》), 2025.
- 25 Y. Wang, **S. Hu**, and X. Zhao, "Rethinking similar object interference in single object tracking," in *International Conference on Computer Science and Artificial Intelligence (CSAI, EI, Oral)*, 2023, pp. 251–258.

## Workshop

- 1 Y. Ma\*, **S. Hu\***, X. Li, Y. Wang, Y. Chen, S. Liu, and K. H. Cheong, "Learning to be taught: A structured soei framework for modeling and evaluating personality-aligned virtual student agents," in *AAI Conference on Artificial Intelligence AI4Edu Workshop (AAAIW, CCF-A Workshop)*, 2026.
- 2 Y. Ma\*, **S. Hu\***, B. Zhu, Y. Wang, Y. Kang, S. Liu, and K. H. Cheong, "Redefining educational simulation: Eduverse as a user-defined and developmental multi-agent simulation space," in *AAI Conference on Artificial Intelligence AI4Edu Workshop (AAAIW, CCF-A Workshop)*, 2026.
- 3 B. Zhu\*, **S. Hu\***, Y. Ma, Y. Zhang, and K. H. Cheong, "From objective to subjective: A benchmark for virtual student abilities," in *AAI Conference on Artificial Intelligence AI4Edu Workshop (AAAIW, CCF-A Workshop)*, 2026.
- 4 X. Li, X. Feng, **S. Hu**, M. Wu, D. Zhang, J. Zhang, and K. Huang, "Dtllm-vlt: Diverse text generation for visual language tracking based on llm," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition 3rd VDU Workshop (CVPRW, CCF-A Workshop, Oral, Best Paper Honorable Mention)*, 2024.




## Preprint

- 1 **S. Hu\***, X. Li\*, X. Li, J. Zhang, Y. Wang, X. Zhao, and K. H. Cheong, "Fiova: A multi-annotator benchmark for human-aligned video captioning," *arXiv preprint arXiv:2410.15270*, 2024.
- 2 Y. Ma\*, **S. Hu\***, X. Li, Y. Wang, Y. Chen, S. Liu, and K. H. Cheong, "When llms learn to be students: The soei framework for modeling and evaluating virtual student agents in educational interaction," *arXiv preprint arXiv:2410.15701*, 2024.
- 3 Y. Ma\*, **S. Hu\***, B. Zhu, Y. Wang, Y. Kang, S. Liu, and K. H. Cheong, "Eduverse: A user-defined multi-agent simulation space for education scenario," *arXiv preprint arXiv:2510.05650*, 2025.
- 4 B. Zhu\*, **S. Hu\***, Y. Ma, Y. Zhang, and K. H. Cheong, "Edupersona: Benchmarking subjective ability boundaries of virtual student agents," *arXiv preprint arXiv:2510.04648*, 2025.
- 5 X. Li, X. Li, and **S. Hu** ✉, "Matrack: Efficient multiscale adaptive tracker for real-time nighttime uav operations," *arXiv preprint arXiv:2510.21586*, 2025.
- 6 Y. Wang\*, **S. Hu\***, S. Jia, P. Xu, H. Ma, Y. Ma, J. Zhang, X. Lu, and X. Zhao, "Soi is the root of all evil: Quantifying and breaking similar object interference in single object tracking," *arXiv preprint arXiv:2508.09524*, 2025.
- 7 X. Li\*, **S. Hu\***, X. Feng, D. Zhang, M. Wu, J. Zhang, and K. Huang, "How texts help? a fine-grained evaluation to reveal the role of language in vision-language tracking," *arXiv preprint arXiv:2411.15600*, 2024.
- 8 X. Li, **S. Hu**, X. Feng, D. Zhang, M. Wu, J. Zhang, and K. Huang, "Dtvlt: A multi-modal diverse text benchmark for visual language tracking based on llm," *arXiv preprint arXiv:2410.02492*, 2024.
- 9 X. Li, **S. Hu**, X. Feng, D. Zhang, M. Wu, J. Zhang, and K. Huang, "Visual language tracking with multi-modal interaction: A robust benchmark," *arXiv preprint arXiv:2409.08887*, 2024.


- 10 S. Jia, **S. Hu**, Y. Cao, F. Yang, X. Lu, and X. Lu, "Tracking by detection and query: An efficient end-to-end framework for multi-object tracking," *arXiv preprint arXiv:2411.06197*, 2024.
- 11 X. Li, X. Li, **S. Hu**, and K. Huang, "Select less, reason more: Prioritizing evidence purity for video reasoning," *arXiv preprint arXiv:2510.15440*, 2025.
- 12 X. Feng, H. Yu, M. Wu, **S. Hu**, J. Chen, C. Zhu, J. Wu, X. Chu, and K. Huang, "Narrlv: Towards a comprehensive narrative-centric evaluation for long video generation models," *arXiv preprint arXiv:2507.11245*, 2025.
- 13 X. Li, X. Li, J. Gao, R. Pi, **S. Hu**, and W. Zhang, "Look less, reason more: Rollout-guided adaptive pixel-space reasoning," *arXiv preprint arXiv:2510.01681*, 2025.
- 14 **S. Hu**, X. Zhao, Y. Wang, Y. Shan, and K. Huang, *Nearing or surpassing: Overall evaluation of human-machine dynamic vision ability*, 2023.  URL: [https://openreview.net/forum?id=LGbzyw\\_pnsc](https://openreview.net/forum?id=LGbzyw_pnsc).

## Projects




### Framework

- 2018.03 - 2018.11  **Darknet-Cross: Light-weight Deep Learning Framework for Heterogeneous Computing**
-  <https://github.com/huuuuusy/Darknet-Cross>
  -  Darknet-Cross supports algorithm acceleration processing on various platforms (e.g., Android and Ubuntu) and various GPUs (e.g., Nvidia GTX1070 and Adreno 630).
  - ✓ The work is a part of my master's thesis at HKU (thesis defense grade: A+).

### Platform (Development & Maintenance)

- 2019.11 - Now  **VideoCube / MGIT Platform**
-  <http://videocube.aitestunion.com>
  -  VideoCube / MGIT is the supporting platform for research accepted by IEEE TPAMI 2023 and NeurIPS 2023.
  - ✓ As of Sept. 2024, the platform has received 440k+ page views, 1.2k+ downloads, 420+ trackers from 220+ countries and regions worldwide.
- 2021.07 - Now  **SOTVerse / VLTVerse Platform**
-  <http://metaverse.aitestunion.com>
  -  SOTVerse is the supporting platform for research accepted by IJCV 2024.
  -  As of Sept. 2024, the platform has received 126k+ page views from 150+ countries and regions worldwide.
- 2022.05 - Now  **BioDrone Platform**
-  <http://biodrone.aitestunion.com/>
  -  BioDrone is the supporting platform for research accepted by IJCV 2024.
  - ✓ As of Sept. 2024, the platform has received 170k+ page views from 200+ countries and regions worldwide.

### Platform (Maintenance)


- 2020.07 - Now  **GOT-10k Platform**
-  <http://got-10k.aitestunion.com/>
  -  GOT-10k is the supporting platform for research accepted by IEEE TPAMI 2021.
  - ✓ As of Sept. 2024, the platform has received 3.92M+ page views, 7.5k+ downloads, 21.5k+ trackers from 290+ countries and regions worldwide.




## Projects (continued)

### Challenge (Organizer)

2023.05 - 2023.11  **Hislopvision Challenge**

 <http://hislopvision.aitestunion.com/>

 Hislopvision Challenge supports the 3rd High-speed and Low-power Visual Understanding Challenge in the 5th Chinese Conference on Pattern Recognition and Computer Vision.

✓ The participating teams include researchers from Tsinghua University, Beijing Institute of Technology, Jilin University, etc.

### Challenge (Participant)

2021.01 - 2021.04  **Cell Tracking Challenge**

 <https://celltrackingchallenge.net/>


✓ This project was submitted to the Cell Tracking Challenge in Mar. 2021, and maintains the second place in the Fluo-C2FL-MSc+ dataset and the third place in the Fluo-C2FL-Huh7 dataset (statistics by Oct. 2023).

### Grant (Participant)

2024.01 - 2025.01  **Research on the Dilemma and Countermeasures of Human-Computer Interaction in Intelligent Education**


✓ The project is funded by the 2023 Intelligent Education PhD Research Fund, supported by the Institute of AI Education Shanghai and East China Normal University, and is currently in progress.

## Academic Activities and Services

Tutorial  **34th International Joint Conference on Artificial Intelligence (IJCAI)**


• **Title:** Human-Centric and Multimodal Evaluation for Explainable AI: Moving Beyond Benchmarks

• **Date & Location:** 14:00-15:30, 18th August, 2025, Montreal, Canada

 **28th European Conference on Artificial Intelligence (ECAI)**


• **Title:** From Benchmarking to Trustworthy AI: Rethinking Evaluation Methods Across Vision and Complex Systems

• **Date & Location:** 26th October, 2025, Bologna, Italy

 **2025 IEEE International Conference on Systems, Man, and Cybernetics (SMC)**

• **Title:** The Synergy of Large Language Models and Evolutionary Optimization on Complex Networks

• **Date & Location:** 5th-8th October, 2025, Vienna, Austria

 **17th Asian Conference on Computer Vision (ACCV)**

• **Title:** From Machine-Machine Comparison to Human-Machine Comparison: Adapting Visual Turing Test in Visual Object Tracking

• **Date & Location:** 9:00-12:00, 9th December, 2024, Hanoi, Vietnam

 **27th International Conference on Pattern Recognition (ICPR)**


• **Title:** Visual Turing Test in Visual Object Tracking: A New Vision Intelligence Evaluation Technique based on Human-Machine Comparison

• **Date & Location:** 14:30-18:00, 1st December, 2024, Kolkata, India

 **31st IEEE International Conference on Image Processing (ICIP)**

• **Title:** An Evaluation Perspective in Visual Object Tracking: from Task Design to Benchmark Construction and Algorithm Analysis

• **Date & Location:** 9:00-12:30, 27th October, 2024, Abu Dhabi, United Arab Emirates

Guest Editor  **Journal:** Electronics (Special Issue: Techniques and Applications of Multimodal Data Fusion)

## Academic Activities and Services (continued)

- Associate Editor ■ **Journal:** Innovation and Emerging Technologies
- Reviewer ■ **Conference:** NeurIPS, ICML, ICLR, CVPR, ECCV, ICCV, AAAI, IJCAI, ACMMM, ICRA, AISTATS, etc.
- **Journal:** IEEE Transactions on Image Processing, SCIENCE CHINA Information Sciences, IEEE Transactions on Network Science and Engineering, IEEE Transactions on Vehicular Technology, Information Fusion, Neurocomputing, Knowledge-Based Systems, Scientific Reports, IEEE Access, Journal of Computational Science, Journal of Electronic Imaging, Digital Signal Processing, etc.
- Member ■ **Society:** Institute of Electrical and Electronics Engineers (IEEE, No.97803543), China Society of Image and Graphics (CSIG, No.E651129499M), Chinese Association for Artificial Intelligence (CAAI, No.E660120827A), China Computer Federation (CCF, No.Z1771M).

## Skills

- Languages ■ Mandarin Chinese (native speaker) and English.
- Coding ■ Python, Java, Matlab, C,  $\text{\LaTeX}$ .
- Development ■ Android, Flask, SQLite.
- Linux ■ Shell, OS virtualization.
- Misc. ■ Academic research, leadership, presentation.

## Awards and Honors

- 2025 ■ **IEEE SMCS TEAM Program Award**, the IEEE Systems, Man, and Cybernetics Society.
- 2024 ■ **Best Paper Honorable Mention**, the 3rd Workshop on Vision Datasets Understanding and DataCV Challenge in CVPR 2024.
- **Beijing Outstanding Graduates**, Beijing Municipal Education Commission (Top 5%).
- 2023 ■ **China National Scholarship**, Ministry of Education of the People's Republic of China (Top 1%).
- **First Prize of Climbing Scholarship**, Institute of Automation, Chinese Academy of Sciences.
- 2022 ■ **Merit Student**, University of Chinese Academy of Sciences.
- 2017 ■ **Excellent Innovative Student**, Beijing Institute of Technology.
- 2016 ■ **College Scholarship**, Chinese Academy of Sciences.
- **Excellent League Member on Youth Day Competition**, Beijing Institute of Technology.
- 2015 ■ **National First Prize**, Contemporary Undergraduate Mathematical Contest in Modeling (Top 1%).
- **First Prize of Mathematics Modeling Competition**, Beijing Institute of Technology.
- **Outstanding Individual on Summer Social Practice**, Beijing Institute of Technology.
- **Second Prize on Summer Social Practice**, Beijing Institute of Technology (Team Leader).
- **Outstanding Student Cadre**, Beijing Institute of Technology.
- **Outstanding League Cadre on Youth Day Competition**, Beijing Institute of Technology.
- **Outstanding Youth League Branch**, Beijing Institute of Technology (Team Leader).
- **Top 10 Activities on Youth Day Competition**, Beijing Institute of Technology (Team Leader).
- 2014 ■ **Outstanding Student**, Beijing Institute of Technology.
- 2013-2017 ■ **Academic Scholarship**, Beijing Institute of Technology.

## Assisted Student Supervision

- Ph.D. Student ■ **Xiaokun Feng**, 2023.04-Now, Institute of Automation, Chinese Academy of Sciences

## Assisted Student Supervision (continued)

	■ <b>Yiping Ma</b> , 2023.08-Now, East China Normal University
	■ <b>Dailing Zhang</b> , 2023.08-Now, Institute of Automation, Chinese Academy of Sciences
	■ <b>Yipei Wang</b> , 2024.08-Now, Southeast University
	■ <b>Xuchen Li</b> , 2024.08-Now, Institute of Automation, Chinese Academy of Sciences
	■ <b>Hong-jui Shen</b> , 2024.10-Now, Nanyang Technological University, Singapore
	■ <b>Kainan Li</b> , 2024.10-Now, Nanyang Technological University, Singapore
	■ <b>Buyuan Zhu</b> , 2025.01-Now, Nanyang Technological University, Singapore
	■ <b>Zi Ye</b> , 2025.08-Now, University of Science and Technology Beijing
	■ <b>Yihan Meng</b> , 2025.08-Now, University of Science and Technology Beijing
	■ <b>Meiqi Wu</b> , 2022.08-2025.06, University of Chinese Academy of Sciences
M.S. Student	■ <b>Xuzhao Li</b> , 2024.07-Now, Beijing Institute of Technology
	■ <b>Panxi Xu</b> , 2024.09-Now, University of Science and Technology Beijing
	■ <b>Hongfei Ma</b> , 2025.07-Now, University of Science and Technology Beijing
	■ <b>Yiping Ma</b> , 2022.05-2023.07, Nanjing Normal University
	■ <b>Yipei Wang</b> , 2022.08-2024.07, Southeast University
	■ <b>Yuqi Cui</b> , 2024.07-2025.01, University of Science and Technology Beijing
	■ <b>Nguyen Khanh Truong</b> , 2025.02-2025.11, Nanyang Technological University, Singapore
B.E. Student	■ <b>Yuxiao Li</b> , 2024.10-Now, Nanyang Technological University, Singapore
	■ <b>Junyou Zhu</b> , 2022.09-2023.08, University of Chinese Academy of Sciences
	■ <b>Lihang Hu</b> , 2022.09-2023.08, University of Chinese Academy of Sciences
	■ <b>Dailing Zhang</b> , 2022.09-2023.08, Southeast University
	■ <b>Xuchen Li</b> , 2023.04-2024.07, Beijing University of Posts and Telecommunications
	■ <b>Le Ying Tan</b> , 2024.09-2025.05, Nanyang Technological University, Singapore
	■ <b>Zi Ye</b> , 2024.09-2025.07, University of Science and Technology Beijing
	■ <b>Jinlin Ma</b> , 2024.10-2025.07, Nanyang Technological University, Singapore
	■ <b>Yihan Meng</b> , 2024.12-2025.07, University of Science and Technology Beijing
	■ <b>Yihui Jiang</b> , 2025.01-2025.05, University of Science and Technology Beijing
	■ <b>Shunya Hirashima</b> , 2025.04-2025.07, Nanyang Technological University, Singapore
	■ <b>Anastasiia Bohachenko</b> , 2025.07-2025.09, Global Connect Fellow student in Nanyang Technological University, Singapore

## References

Professors Kaiqi Huang and Xin Zhao served as my Ph.D. supervisor and co-supervisor, respectively, with whom I collaborated on research in computer vision. Additionally, Prof. Choli Wang oversaw my M.Sc. studies at HKU, and I had the privilege of working with him on high-performance computing projects. Currently, I am lucky to work with Prof. Kang Hao Cheong at NTU.



**Prof. Kaiqi Huang**

Professor, IAPR Fellow, IEEE Senior Member, 10,000 Talents Program - Leading Talents

Director of Center for Research on Intelligent Systems and Engineering (CRISE)

National Laboratory of Pattern Recognition (NLPR)

Institute of Automation, Chinese Academy of Sciences (CASIA)

✉ kqhuang@nlpr.ia.ac.cn

**Prof. Choli Wang**

Honorary Professor

Department of Computer Science, University of Hong Kong (HKU)

✉ clwang@cs.hku.hk

✉ choliwang@gmail.com

**Prof. Xin Zhao**

Professor, IEEE Senior Member, Beijing Science Fund for Distinguished Young Scholars

School of Computer and Communication Engineering, University of Science and Technology Beijing (USTB)

✉ xinzhao@ustb.edu.cn

✉ xzhaopersonal@foxmail.com

**Prof. Kang Hao Cheong**

Associate Professor, IEEE Senior Member

Assistant Dean, School of Physical & Mathematical Sciences

Assistant Dean, College of Science

Nanyang Technological University (NTU)

✉ kanghao.cheong@ntu.edu.sg