

CURRICULUM VITAE

Jiaming Chen | Ph.D. Student at University of Manchester

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Education

Ph.D. in Computer Science <i>Department of Computer Science</i> <i>Advisor:</i> Dr. Wei Pan	Sep. 2024 -Present Manchester, UK
M. Sc. in Control Science and Engineering <i>School of Control Science and Engineering, Shandong University</i> <i>Advisor:</i> Prof. Wei Zhang	Sep. 2021 – Jul. 2024 Jinan, China
B. Eng. in Automation <i>School of Control Science and Engineering, Shandong University</i>	Sep. 2017 – Jul. 2021 Jinan, China

Publications

- [1] Wentao Zhao*, **Jiaming Chen***, Ziyu Meng, Donghui Mao, Ran Song, Wei Zhang, "VLMPC: VisionLanguage Model Predictive Control for Robotic Manipulation, " Robotics: Science and Systems (RSS), 2024. [[paper](#)][[code](#)]
- [2] **Jiaming Chen***, Weixin Luo*, Ran Song, Xiaolin Wei, Lin Ma, Wei Zhang, "Learning Point-Language Hierarchical Alignment for 3D Visual Grounding," *IEEE Transactions on Pattern Analysis and Machine Intelligence* (T-PAMI) under review. [[arXiv](#)][[code](#)]
- [3] Hao Zhang*, **Jiaming Chen***, Jiyu Cheng, Yibin Li, Simon X. Yang, Wei Zhang, "Nowhere to Go: Benchmarking Multi-robot Collaboration in Target Trapping Environment," *IEEE Transactions on Industrial Electronics* (T-IE), 2023. [[paper](#)][[code](#)]
- [4] Dewei Wang, **Jiaming Chen**, and Jiyu Cheng, "A Survey of Object Goal Navigation: Datasets, Metrics, and Methods," *IEEE International Conference on Mechatronics and Automation* (ICMA), 2023. [[paper](#)]
- [5] **Jiaming Chen***, Weixin Luo*, Wei Zhang, Lin Ma, "Explore inter-contrast between videos via composition for weakly supervised temporal sentence grounding," *Proceedings of the AAAI Conference on Artificial Intelligence* (AAAI), 2022. [[paper](#)]

* These authors contributed equally to the work.

Internship Experience

Internship at Engram <i>Position:</i> Algorithm Research Internship <i>Mentor:</i> Prof. Shenghua Gao	Jun. 2024 - Sep. 2024 Shanghai, China
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- Researched algorithms for ultra-high resolution image encoding and segmentation.

Internship at Vision Intelligence Center, Meituan <i>Position:</i> Algorithm Research Internship <i>Mentor:</i> Dr. Weixin Luo , Dr. Lin Ma	Apr. 2021 – Jan. 2023 Beijing, China
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- Researched algorithms for video action detection and temporal sentence grounding;
- Deployed and validated algorithms on public datasets and company data for practicality;
- Authored a research paper presented at AAAI2022 and a patent.

Review Services

PC Member: AAAI 2023, AAAI 2024

Reviewer: ICRA 2024, ICRA 2023, CAC 2023, Pattern Recognition Letters

Contests

Champion of the ECCV 2022 ScanRefer Challenge	Oct. 2022
Second Prize, National Post-Graduate Mathematical Contest in Modeling, China	Dec. 2021
Champion of International Challenge on Intelligent Perception of Ocean Targets	Dec. 2020
4th place of 2nd ABC International Conference Cooking Activity Recognition Challenge	Jun. 2020

Honors

Huawei Scholarship	Oct. 2022
Outstanding Graduate Student of Shandong University	Jun. 2022
Special Freshman Scholarship, Shandong University	Sep. 2021
Undergraduate Academic Scholarship, Shandong University	Sep. 2017 – Sep. 2019

Skills

English: TOEFL Overall 90 (R: 24 L: 25 S: 20 W: 21)

Languages: Python, C/C++

Technologies/Frameworks: Linux, Git, Docker, PyTorch, Tensorflow, OpenCV, Open3D.