Juexiao Zhang

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Education

2023 – 2027 (expected)	**Ph.D., NYU Courant** in Computer Science. Advisor: *Prof. Chen Feng* Focus: *Scene Representation, Robotics Vision, MLLMs and Robotics.*
2021 – 2023	**M.Sc., NYU Courant** in Computer Science. Focus: *Representation Learning, Robot Perception, Multi-Robot Collaboration.*
2016 – 2020	**B.Eng., Tsinghua University** in Electrical Engineering. Focus: *Natural Language Processing, Representation and Intepretability.*

Research Publications

1. Xinhao Liu, Jintong Li, Yichen Jiang, Niranjan Sujay, Zhicheng Yang, **Juexiao Zhang**, John Abanes, Jing Zhang, and Chen Feng, "Citywalker: Learning embodied urban navigation from web-scale videos," *CVPR*, 2025.

2. Zeyu Yun, **Juexiao Zhang**, Yann LeCun, and Yubei Chen, "URLOST: Unsupervised representation learning without stationarity or topology," in *ICLR*, 2025.

3. **Juexiao Zhang***, Irving Fang*, Shengbang Tong, and Chen Feng, "From intention to execution: Probing the generalization boundaries of vision-language-action models," *arXiv preprint arXiv:2506.09930*, 2025.

4. **Juexiao Zhang***, Beichen Wang*, Shuwen Dong, Irving Fang, and Chen Feng, "Vlm see, robot do: Human demo video to robot action plan via vision language model," in *2025 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, IEEE, 2025.

5. Suozhi Huang, **Juexiao Zhang**, Yiming Li, and Chen Feng, "Actformer: Scalable collaborative perception via active queries," in *ICRA*, 2024.

6. Zonglin Lyu, **Juexiao Zhang**, Mingxuan Lu, Yiming Li, and Chen Feng, "Tell me where you are: Multimodal llms meet place recognition," *arXiv preprint arXiv:2406.17520*, 2024.

7. Jing Zhang, Irving Fang, Hao Wu, Akshat Kaushik, Alice Rodriguez, Hanwen Zhao, **Juexiao Zhang**, Zhuo Zheng, Radu Iovita, and Chen Feng, "Luwa dataset: Learning lithic use-wear analysis on microscopic images," in *CVPR*, 2024.

8. **Juexiao Zhang**, Gao Zhu, Sihang Li, Xinhao Liu, Haorui Song, Xinran Tang, and Chen Feng, "Multiview scene graph," in *NeurIPS*, 2024.

9. **Juexiao Zhang***, Yiming Li*, Dekun Ma, Yue Wang, and Chen Feng, "Multi-robot scene completion: Towards task-agnostic collaborative perception," in *CoRL*, 2023.

10. **Juexiao Zhang***, Yubei Chen*, Brian Cheung, and Bruno A Olshausen, "Word embedding visualization via dictionary learning," *arXiv preprint arXiv:1910.03833*, 2019.

Experience

May 2025 – present	**Research Intern**, Samsung Research America Mentor: Dr. Luowei Zhou *Unified Models, Multimodal Large Language Models, Generative Modeling*

Experience (continued)

2023 – present	**Research Assiatant**, AI4CE Lab, New York University Advisor: Prof. Chen Feng *Robot Vision, Scene Representation, MLLMs and Robotics, Multi-robot collaboration*
Sep. 2021 – Sep. 2023	**Research Assistant**, Center for Data Science, New York University Mentor: Dr. Yubei Chen *Representation Learning, Self-supervised Learning*
Sep. 2020 – Jan. 2021	**Research Intern**, Baidu AI Research, Baidu, China *NLP for Chinese, Transformer Model for Word Sense Embedding*
May 2019 – Aug. 2019	**Research Assistant**, Redwood Center, UC Berkeley Advisor: Prof. Bruno Olshausen and Dr. Yubei Chen *Representation Learning, Interpretability of Representations*
Sep. 2018 – Jan. 2019	**Research Intern**, NLP Lab, Tsinghua University, China *Natural Language Processing, Question Answering*

Profesional Services

Reviewer	**ICLR**, **NeurIPS**, **CVPR**, **ICML**, **IROS**, **ICRA**.

Skills

Programming	Python, C/C++, Shell, CUDA, Matlab, Verilog, LaTeX
Libraries & Dev	PyTorch, Git, Huggingface, OpenCV
Languages	English, Mandarin Chinese

Miscellaneous

Awards and Achievements

2023	**MacCracken Fellowship**, New York University.
2017	**National Scholarship**, (Top 1%), Chinese Ministry of Education.
	Scholarship of Academic Excellence, (Top 5%), Tsinghua University.