

Manjie Xu

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RESEARCH *Machine Learning, Active Learning, Computer Vision, Human-Robot Interaction*

EDUCATION **Beijing Institute of Technology**, Peking
Advisor: Prof. Dr. Wei Liang
M.S in Computer Science Sep.2022 (- June.2025)
The Cognitive Reasoning Lab, Peking University July.2021 - now
Advisor: Prof. Dr. Yixin Zhu
Nanjing University, Nanjing
B.E. in Computer Science Sep.2018 - June.2022

RESEARCH INTERESTS My research interests are primarily focused on machine learning, with a particular emphasis on active learning and in-context learning. I aim to create intelligent agents that not only adapt to their environment but also exhibit synergistic interactions with humans. Specifically, in light of the significant advancements in pre-trained large language models (LLMs), my current pursuits are mainly twofold: **1)** custom LLMs for domain-specific tasks like code generation or causal reasoning, and **2)** developing LLM-guided agents that proactively engage with and learn from their surroundings.

SELECTED PUBLICATIONS **Xu, M.**, Jiang, G., Liang, W., Zhang, C., & Zhu, Y. Conan: Active Reasoning in an Open-World Environment. Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.
Xu*, M., Jiang*, G., Liang, W., Zhang, C., & Zhu, Y. IVRE: Interactive Visual Reasoning under Uncertainty. Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.
Shi*, Y., **Xu***, M., Hopcroft, J.E., He, K., Tenenbaum, J.B., Zhu, S., Wu, Y.N., Han, W., Zhu, Y. On the Complexity of Bayesian Generalization. Proceedings of the 40th International Conference on Machine Learning (ICML), 2023.
Jiang*, G., **Xu***, M., Zhu, S. C., Han, W., Zhang, C., & Zhu, Y. Evaluating and Inducing Personality in Pre-trained Language Models. Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023 (spotlight).
All my publications can be found at [My Google Scholar Page](#)

RECOGNITION Outstanding Academic Scholarships (Nanjing University)
Outstanding Academic Scholarships (Beijing Institute of Technology)
People’s Scholarship of China (Nanjing University)
Honors Graduate, KUANG YAMING HONORS SCHOOL, Nanjing University

OTHER EXPERIMENTS Institute for Artificial Intelligence, Peking University
Research Intern July.2021 - now
National Key Laboratory of General Artificial Intelligence, BIGAI
Research Intern Oct.2021 - Aug.2023
Machine Learning Summer School, Massachusetts Institute of Technology
Online Exchange July.2020 - Aug.2020

REVIEWER ECCV, NeurIPS, CVPR, ICLR and ICML.