Yuxin Xiong

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Education

University of California, San Diego Sept. 2024 - Mar. 2026

Master of Science in Computer Science

- **GPA**: 4.0/4.0
- **Relevant Courses:** ML: Learning Algorithms (A^+), Fair and Transparent ML (A^+), Statistical NLP (A^+), Recommender Systems (A^+)

Shanghai Jiao Tong University Sept. 2020 - June 2024

Bachelor of Engineering in Information Engineering

- **GPA**: 3.82/4.3, 89.43/100 | **Ranking**: Top 10%
- **Bachelor Thesis**: Multi-agent Interaction Strategies based on Large Language Models (A)

Research Interest

My research interests lie in **reasoning, natural language processing**, and **large language models**, with connections to reinforcement learning and agent-based systems. I aim to develop reliable and efficient AI systems capable of advanced reasoning and real-world decision making.

Work Experience

Nexa AI June 2025 – Sept. 2025

Machine Learning Engineer Intern

Amazon Web Services AI Lab July 2024 – Sept. 2024

Applied Scientist Intern (Advisor: Minjie Wang)

Publications

(* indicates equal contribution.)

1. "K2-Think: A Parameter-Efficient Reasoning System", *Technical Report*, arXiv:2509.07604.
2. J. Wu*, **Y. Xiong***, X. Li, Z. Hu, T. Yu, R. Wang, X. Chen, J. Shang, J. McAuley, "CTRLS: Chain-of-Thought Reasoning via Latent State-Transition," *arXiv preprint*, arXiv:2507.08182.
3. [**EMNLP 2025**] S. Yu*, **Y. Xiong***, J. Wu, X. Li, T. Yu, X. Chen, R. Sinha, J. Shang, J. McAuley, "Explainable Chain-of-Thought Reasoning: An Empirical Analysis on State-Aware Reasoning Dynamics," *The 2025 Conference on Empirical Methods in Natural Language Processing.*
4. [**EMNLP 2025**] J. Wu, **Y. Xiong**, X. Li, Y. Xia, Y. Wang, T. Yu, S. Kim, R. A. Rossi, L. Yao, J. Shang, J. McAuley, "Mitigating Visual Knowledge Forgetting in MLLM Instruction-tuning via Modality-decoupled Gradient Descent," *The 2025 Conference on Empirical Methods in Natural Language Processing.*
5. [**ICLR 2025**] J. Wu, X. Li, R. Wang, Y. Xia, **Y. Xiong**, J. Wang, T. Yu, X. Chen, B. Kveton, L. Yao, et al., "OCEAN: Offline Chain-of-thought Evaluation and Alignment in Large Language Models," *International Conference on Learning Representations (ICLR) 2025.*
6. [**ICML 2024**] X. Pang, S. Tang, R. Ye, **Y. Xiong**, B. Zhang, Y. Wang, S. Chen, "Self-Alignment of Large Language Models via Monopolylogue-based Social Scene Simulation", *International Conference on Machine Learning (ICML) 2024.* **(Spotlight)**
7. [**NeurIPS 2023**] Z. Lei, Y. Zhang, **Y. Xiong**, S. Chen, "Emergent Communication in Interactive Sketch Question Answering", *Neural Information Processing Systems (NeurIPS) 2023.*

Professional Services

Reviewer for: ICLR 2026, NeurIPS 2023/2025, ICML 2024/2025, AAAI 2025/2026

Technical Skills

Programming Languages: Python (PyTorch, NumPy, sklearn, Pandas), C++, Matlab, Java (basic)
Tools: Git/GitHub, Unix Shell, Pycharm, VS Code, IntelliJ IDEA