

Xiao Wang

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Agentic AI / Generative AI

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My current research focuses on Agentic AI, with an emphasis on developing more effective and efficient ways to harness large language models as reliable, production-ready tools. In addition, I have research interests and experience in several other AI areas, including reinforcement learning, LLM post-training, and generative model, where I have also made research contributions.

EDUCATION

University at Buffalo, SUNY | Department of Computer Science and Engineering 2024 – Present
Ph.D. Student in Computer Science GPA: 4.00 Advisor: Prof. Venu Govindaraju

Syracuse University | College of Engineering & Computer Science 2021 – 2023
M.S. in Computer Science GPA: 3.86

PUBLICATIONS

- **Xiao Wang***, Lu Dong*, Sahana Rangasrinivasan, Ifeoma Nwogu, Srirangaraj Setlur, Venu Govindaraju. "AutoMisty: A Multi-Agent LLM Framework for Automated Code Generation in the Misty Social Robot." *International Conference on Intelligent Robots and Systems (IROS 2025 Oral)*.
- **Xiao Wang***, Lu Dong*, Ifeoma Nwogu, Srirangaraj Setlur, Venu Govindaraju. "InterventionLens: A Multi-Agent Framework for Detecting ASD Intervention Strategies in Parent-Child Shared Reading." *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPRW 2026)*.
- **Xiao Wang***, Lu Dong*, Mark G Frank, Srirangaraj Setlur, Venu Govindaraju, Ifeoma Nwogu. "ConfusionBench: An Expert-Validated Benchmark for Confusion Recognition and Localization in Educational Videos." *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPRW 2026)*.
- **Xiao Wang***, Lu Dong*, Jingchen Sun, Ifeoma Nwogu, Srirangaraj Setlur, Venu Govindaraju. "MistyPilot: An Agentic Fast-Slow Thinking LLM Framework for Misty Social Robots." *IROS 2026, under review*.
- **Xiao Wang***, Lu Dong*, Srirangaraj Setlur, Venu Govindaraju, Ifeoma Nwogu. "Ig3D: Integrating 3D Face Representations in Facial Expression Inference." *Proceedings of the European Conference on Computer Vision (ECCVW 2024)*.
- Bhavin Jawade, Alexander Stone, Deen Dayal Mohan, **Xiao Wang**, Srirangaraj Setlur, Venu Govindaraju. "ProxyFusion: Face Feature Aggregation Through Sparse Experts." *The 2024 Conference and Workshop on Neural Information Processing Systems (NeurIPS 2024)*.
- Lu Dong, **Xiao Wang**, Ifeoma Nwogu. "Word-Conditioned 3D American Sign Language Motion Generation." *The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*.
- Lu Dong, Lipisha Nitin Chaudhary, Fei Xu, **Xiao Wang**, Mason Lary, Ifeoma Nwogu. "SignAvatar: Sign Language 3D Motion Reconstruction and Generation." *The 18th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2024)*.

PROFESSIONAL EXPERIENCE

ByteDance / TikTok May 2026 – Aug 2026
Research Scientist Intern, Applied Machine Learning – Enterprise San Jose, CA

- Conducting research on LLM-based agentic AI systems for enterprise applications.

Microsoft (via Centific Global Solutions, Inc.) May 2025 – Aug 2025
PhD Research Intern, MSAI Reasoning & Language Understanding (M365 Copilot Researcher) USA

- Collaborated on the design and implementation of a four-stage, multi-agent meeting simulation pipeline (*Scene Planning – Character Modeling – Directed Interaction – Post-production*), replacing one-shot script generation with iterative, collaborative agent workflows.
- Coordinated agents with distinct personas and specialized knowledge bases to produce realistic dialogues averaging 40–60 minutes and over 150 turns, overcoming the “short, flat, fake” limitations of conventional scripted meetings.
- Built an automated fact-evaluation framework to assess the accuracy of key discussion points and detect significant factual deviations.
- Integrated fact-evaluation results as feedback signals into the generation pipeline, enabling automatic quality optimization.
- Delivered hundreds of high-fidelity meeting transcripts, now serving as synthetic training data for multiple internal initiatives.