Bohan Yao

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Education

University of Washington September 2022 – June 2026
B.S. in Computer Science & Mathematical Statistics GPA: 4.0

Publications

[1] **ARM: Discovering Agentic Reasoning Modules for Generalizable Multi-Agent Systems** arXiv
Bohan Yao, Shiva Krishna Reddy Malay, Vikas Yadav
NeurIPS 2025 Math-AI Workshop

[2] **Diverse Multi-tool Aggregation with Large Language Models for Enhanced Math Reasoning** arXiv
Bohan Yao, Vikas Yadav
EMNLP 2025 Findings & NeurIPS 2025 Math-AI Workshop

Experiences

ServiceNow CoreLLM Part Time Research Scientist, with Vikas Yadav September 2025 – Present

- Working on multimodal agentic reasoning systems for data analysis that self-improve over time.

ServiceNow CoreLLM Research Scientist Intern, with Vikas Yadav June 2025 – September 2025

- Worked on automated optimization of multi-agent systems for solving multi-step reasoning tasks.

Noah's ARK Lab Undergraduate Researcher, with Noah Smith & Yulia Tsvetkov December 2023 – Present

- Working on designing agentic system that for the first time, enables automatic documentation of linguistic features of English dialects.

ServiceNow CoreLLM Visiting Researcher, with Vikas Yadav October 2024 – June 2025

- Worked on designing a tool-augmented LLM framework for math reasoning that utilizes multi-tool aggregation.

ServiceNow Machine Learning Engineer Intern June 2024 – September 2024

- Worked on LLM post-training for code generation tasks.
- Designed a novel sparse upcycling framework that improves performance over SFT and previous upcycling methods with zero inference time overhead. Presented work at ServiceNow AI Conference via oral presentation.

Ocean Dynamics Group Undergraduate Researcher, with Georgy Manucharyan May 2023 – December 2023

- Worked on developing a Rankine vortices model for understanding symmetric dipole vortex cloud interaction dynamics.

Loopr.ai Machine Learning Engineer Intern June 2023 – September 2023

- Worked on training anomaly detection models for defect detection on medical device production lines.

Academic Services

Reviewer ICLR 2026, ACL ARR May 2025