

# Bohan Yao

 [bohanyao-nlp.github.io](https://bohanyao-nlp.github.io) —  [s1104@cs.washington.edu](mailto:s1104@cs.washington.edu) —  [bohanyao-nlp](https://orcid.org/0000-0002-9300-0000) —  [Google Scholar](https://scholar.google.com/citations?user=0000000293000000&hl=en)

## Education

### University of Washington

B.S. in Computer Science & Mathematical Statistics

September 2022 – June 2026

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 September 2025 – Present  
*Advisor: Vikas Yadav*  
• Working on multimodal agentic reasoning systems for data analysis that self-improve over time.
- ServiceNow CoreLLM** Research Scientist Intern June 2025 – September 2025  
*Advisor: Vikas Yadav*  
• Worked on automated optimization of multi-agent systems for solving multi-step reasoning tasks.
- Noah's ARK Lab** Undergraduate Researcher December 2023 – Present  
*Advisors: Yulia Tsvetkov & Noah Smith*  
• Working on designing agentic system that for the first time, enables automatic documentation of linguistic features of English dialects.
- ServiceNow CoreLLM** Visiting Researcher October 2024 – June 2025  
*Advisor: Vikas Yadav*  
• 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.
- UW Ocean Dynamics Group** Undergraduate Researcher May 2023 – December 2023  
*Advisor: Georgy Manucharyan*  
• 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