

XIAOCHENG YANG

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EDUCATION

University of Illinois Urbana-Champaign

Master of Science in Computer Science

Related Coursework:

Advanced Topics in NLP, ML for Software Engineering, Text Information Systems

Aug 2024 - Expected May 2026

Current GPA: 4.0/4.0

New York University Shanghai

Bachelor of Science in Computer Science, Minor in Mathematics

Related Coursework:

Natural Language Processing, Reinforcement Learning, Computer Vision

Aug 2020 - May 2024

GPA: 3.92/4.0, In-Major GPA: 4.0/4.0

Study Away:

New York University, New York, USA

Sep 2022 - Dec 2022

PUBLICATIONS

- Yang, X., Shashidhar, S., Hakkani-Tür, D. (2025) [Question Generation for Assessing Early Literacy Reading Comprehension](#). Proc. 10th Workshop on Speech and Language Technology in Education (SLaTE), 187-188
- Shuhaib Mehri, **Xiaocheng Yang**, Takyoun Kim, Gokhan Tur, Shikib Mehri, and Dilek Hakkani-Tür. 2025. [Goal Alignment in LLM-Based User Simulators for Conversational AI](#). Preprint.
- Nimet Beyza Bozdog, Shuhaib Mehri, **Xiaocheng Yang**, Hyeonjeong Ha, Zirui Cheng, Esin Durmus, Jiaxuan You, Heng Ji, Gokhan Tur, and Dilek Hakkani-Tür. 2025. [Must Read: A Systematic Survey of Computational Persuasion](#). Preprint.
- Kunlun Zhu, Hongyi Du, Zhaochen Hong, **Xiaocheng Yang**, Shuyi Guo, Zhe Wang, Zhenhailong Wang, Cheng Qian, Robert Tang, Heng Ji, and Jiaxuan You. 2025. [MultiAgentBench : Evaluating the Collaboration and Competition of LLM agents](#). In Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 8580–8622, Vienna, Austria. Association for Computational Linguistics.
- Cheng Qian, Peixuan Han, Qinyu Luo, Bingxiang He, Xiusi Chen, Yuji Zhang, Hongyi Du, Jiarui Yao, **Xiaocheng Yang**, Denghui Zhang, Yunzhu Li, and Heng Ji. 2025. [EscapeBench: Towards Advancing Creative Intelligence of Language Model Agents](#). In Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 798–820, Vienna, Austria. Association for Computational Linguistics.
- Vardhan Dongre, **Xiaocheng Yang**, Emre Can Acikgoz, Suvodip Dey, Gokhan Tur, and Dilek Hakkani-Tur. 2025. [ReSpAct: Harmonizing Reasoning, Speaking, and Acting Towards Building Large Language Model-Based Conversational AI Agents](#). In Proceedings of the 15th International Workshop on Spoken Dialogue Systems Technology, pages 72–102, Bilbao, Spain. Association for Computational Linguistics.
- **Xiaocheng Yang**, Bingsen Chen, and Yik-Cheung Tam. 2024. [Arithmetic Reasoning with LLM: Prolog Generation & Permutation](#). In Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 2: Short Papers), pages 699–710, Mexico City, Mexico. Association for Computational Linguistics.

RESEARCH EXPERIENCE

Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign

Graduate Research Assistant | Advisor: [Prof. Gokhan Tur](#), [Prof. Dilek Hakkani-Tür](#)

Aug 2024 - Present

- Reproduced the LLM ReAct framework for the task-oriented dialogue domain in the environment of MultiWOZ; Conducted prompt engineering by introducing friction rules in the prompt, to promote machine-user interaction and mitigate ambiguity in task-oriented dialogues; Observed an increment in inform and success scores on the task-oriented dialogue benchmark MultiWOZ by 5.5% and 3% respectively when proper rules are given in the prompt.

- Built and experimented with multi-agent systems for task-oriented dialogues, involving a verifier, friction generator, and ReAct agent; Observed improved inform scores when multi-agents are properly involved.
- Participated in [Project CELaRAI](#), responsible for generating test questions for K-2 early literacy education using LLM and building LLM-based systems simulating the interactions between a teacher and a K-2 student; Built test question generation systems for early literacy based on the YourBench framework and observed 50.4% MAP@1 with Rouge-L F1 on the QA generation benchmark FairytaleQA, outperforming previous methods.

Department of Computer Science, New York University Shanghai

Undergraduate Research Assistant | Advisor: [Prof. Yik-Cheung \(Wilson\) Tam](#)

Jun 2023 – May 2024

- Finetuned LoRAs for large language models to investigate model mathematic reasoning ability on the arithmetic reasoning benchmark GSM8K; Experimented with different output settings, including Chain-of-Thought, Prolog generation, and combinations of both output strategies; Found that Prolog generation outstripped other strategies; Open-sourced the GSM8K-Prolog dataset.
- Experimented with data augmentations on Prolog data; Observed a 10.9% margin of accuracy on the GSM8K test set and a 22.6% margin on the GSM-HARD test set over the Chain-of-Thought baseline with Prolog permutation strategy; Investigated the divergence between cross entropy loss and the actual accuracy of Prolog codes.
- Finetuned LoRAs for large language models to solve dialogue state tracking (DST) using the task-oriented dialogue benchmark MultiWOZ; Experimented with different LoRA settings, model scales, data scales, and different output settings, including slot-level QA and JSON format; Achieved a new SOTA in end-to-end DST methods, obtaining an 82.4% joint goal accuracy.

Department of Economics, New York University Shanghai

Undergraduate Research Assistant | Advisor: [Prof. Guodong Chen](#), [Prof. Yu Zhou](#)

Jun 2022 – Dec 2023

- Conducted a quasi-experimental study on the impact of the school enrollment lottery policies on household expenditures; Experimented with data cleaning strategies, including outlier filtering, winsorization, and logarithms; Utilized propensity score matching and difference-in-difference method, and observed declining household education expenditures after the policy was released.

ACADEMIC SERVICE

- Reviewer, ACL Rolling Review (ARR), May 2025
- Reviewer, ACL Rolling Review (ARR), July 2025

HONORS AND AWARDS

- **Summa Cum Laude**, New York University Shanghai May 2024
- **Honors in Computer Science**, New York University Shanghai May 2024
- **NYU Shanghai Excellence Award**, New York University Shanghai May 2024
- **Dean's List for 2022-2023 Academic Year**, New York University Shanghai May 2023
- **Dean's List for 2021-2022 Academic Year**, New York University Shanghai May 2022
- **Dean's List for 2020-2021 Academic Year**, New York University Shanghai May 2021

TECHNICAL SKILLS

Programming Languages: Python, LaTeX, SQL, R, Java

Machine Learning Libraries: PyTorch, Huggingface, Peft, Torchrun, Deepspeed, Pandas, NumPy, Matplotlib, Scikit-Learn

Spoken Languages: Mandarin Chinese (Native), English (TOEFL 105)