

Yukun Yang

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Education

Tongji University

Sept 2022 – June 2026

B.S.E. in Software Engineering

- GPA: 4.51/5.0 (90.13/100)

Research Paper

Supporting Co-Adaptive Machine Teaching through Human Concept Learning and Cognitive Theories

CHI 2025

🏆 *Best Paper Award (Top 1% of submissions)*

Simret Gebreegziabher, **Yukun Yang**, Elena L. Glassman, Toby Jia-Jun Li

<https://arxiv.org/abs/2409.16561> [🔗](#)

agentExplainer: Visually Explain the Collaborative Process of LLM-based Multi-agents for Clinical Decision-makings

In submission.

Rui Sheng, **Yukun Yang**, Yanna Lin, Sicheng Song, Haobo Li, Zixin Chen, Zelin Zang, Huamin Qu,

DiLLS: Interactive Diagnosis of LLM-based Multi-agent Systems via Layered Log Summary

In submission.

Rui Sheng*, **Yukun Yang***, Chuhan Shi, Yanna Lin, Zixin Chen, Huamin Qu, Furui Cheng,

Experience

ISURE program (International Summer Undergraduate Research Experience)

South Bend, Indiana
June 2024 – Aug 2024

University of Notre Dame (supervised by Toby Li)

Mocha: Contributed to the evaluation and improvement of the annotation system.

- Refined system counterfactual generation through prompt engineering, enhancing the reliability of synthetic data.
- Designed and conducted user experiments to systematically assess tool effectiveness.
- Performed literature review and contributed to the writing of the study, situating findings within existing research.

ISURE program (International Summer Undergraduate Research Experience)

South Bend, Indiana
June 2025 – Aug 2025

University of Notre Dame (supervised by Toby Li)

EvalAgent: Contributed to the design and development of an evaluation framework for AI web agents.

- Conducted a literature review to identify key challenges and gaps in existing agent evaluation methods.
- Designed experiments comparing behavioral differences across multiple persona-configured agents on identical tasks, leveraging the Browser Use framework.
- Built a simulated website as a static environment to elicit clearer behavioral variations among agents.
- Developed a system to support evaluators in exploring how different agent configurations and prompts influence agent behavior, enhancing sensemaking in evaluation.

Research Intern

Hong Kong, China

The Hong Kong Univeristy of Science and Technology, VIS Lab

Oct 2024 – May 2025

- **AgentExplainer**: Contributed to the design and implementation of a visualization system for agent communication.

- Designed and implemented a prototype using the LangChain framework to model agent communication with debate theories.
- Developed the frontend with Vue and the backend with Python + LangChain.
- Constructed a custom dataset to validate debate-theory-based reasoning.
- Conducted user studies with domain experts to evaluate the system’s effectiveness in supporting reasoning validation.
- **DiLLS**: Researched and prototyped a multi-agent debugging support system.
 - Conducted a formative study to identify key debugging challenges in multi-agent systems (e.g., loss of context, overwhelming data).
 - Designed a system to support developer sensemaking and insight generation during debugging.
 - Implemented the frontend in Vue and backend algorithms with LangChain.
 - Tested the system with 12 developers, yielding insights for iterative improvement.

Winter@AIR

Institute for AI Industry Research, Tsinghua University (supervised by Jiangtao Gong)

*Beijing, China
Jan 2025 – Feb 2025*

SSupporter: Contributed to the study of LLM-based counseling agents and their alignment with human strategies.

- Performed literature review on alignment between LLM-based agents and human strategies in collaborative contexts.
- Conducted formative studies with therapists from diverse schools of thought (e.g., psychodynamic, humanistic).
- Identified opportunities for improving counseling agents’ alignment with real human practitioners.

Technologies

Technologies: C++/C, Java, JavaScript/TypeScript, Python, Vue/React(framework), LangChain(framework)

Languages: English (Toefl 108), Basic German

Awards

Second-class scholarship 2022-2023 Tongji University

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