

# Yukun Yang

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## Education

**Tongji University**  
*B.S.E. in Software Engineering*  
◦ GPA: 4.51/5.0 (90.13/100)

Sept 2022 – June 2026

## 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,

**The Behavioral Fabric of LLM-Powered GUI Agents: Human Values and Interaction Outcomes** In submission.

Simret Araya Gebreegzuabher, Yukun Yang, Charles Chiang, Hojun Yoo, Chaoran Chen, Hyo Jin Do, Zahra Ashktorab, Werner Geyer, Diego Gómez-Zará Toby Jia-Jun LI

## 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)*

**Agent Evaluation:** Contributed to the design and development of an evaluation framework for web agents.

- Conducted a literature review to identify key challenges and gaps in existing evaluation methods, noting that most focus on outcomes rather than trajectories.
- Designed experiments to compare behavioral differences across multiple persona-configured agents performing identical tasks, leveraging the Browser Use framework.
- Built simulated websites (testbeds) as controlled environments to elicit clearer behavioral variations among agents.
- Developed a tool that enable users to explore how different agent configurations influence agent behavior, enhancing sensemaking in evaluation.

### **Research Intern**

*The Hong Kong University of Science and Technology, VIS Lab*

*Hong Kong, China*

*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.
  - 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 and implemented a system to support developer sensemaking and insight generation during debugging
  - Conducted a user study with 12 developers to evaluate Dills' effectiveness in failure identification

### **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**

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

**Languages:** English (Toefl 108), Basic German

## **Awards**

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**Second-class Scholarship, Tongji University (2022–2023)**

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**Travel Grant, YFEL Program, Abu Dhabi (2025)** *Selected participant; fully funded (x2)*

**National College Water Polo Championship, 4th Place (2025, Zunyi)** *Selected athlete; travel grant*

**Sports Merit Award, Tongji University (2024–2025)** *Encouragement Prize*