

# Jiaju Chen

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## Research Interests

Human-Centered AI, NLP, Human-AI Collaboration, Low-Resource LLM Fine-Tuning

## Education

- 2026 – Present **Northeastern University**, Ph.D. in Computer Science – Boston, Massachusetts, USA  
Advised by: Prof. Dakuo Wang
- 2024 – 2026 **Rice University**, Master of Computer Science – Houston, Texas, USA
- 2020 – 2024 **East China Normal University**, B.Sc. in Computer Science – Shanghai, China

## Research Experience

- 2025 – Present **Harvard University**, Child-Centered AI Lab *Advisor: Ying Xu*
- *LLM-Powered System for Children’s Curiosity-Driven Question-Asking*
    - Leading the full-stack development of an LLM-based system that scaffolds children’s question-asking, recognized by and collaborated with PBS Kids.
- 2023 – Present **Northeastern University**, Human-Centered AI Lab *Advisor: Dakuo Wang*
- *Multi-Agent Evaluation Framework for Real-World NLP Application (ACL 2026)*
    - Designed and developed the Multi-Agent-as-Judge pipeline for multi-dimensional NLP model evaluation. Validated the framework on two real-world datasets and achieved high correlation with human experts [6].
  - *A Research Platform for Exploring Human-Agent Collaboration (CHI 2026)*
    - Built a modular, full-stack research platform (React + Python) enabling systematic human-LLM-agent collaboration studies by re-implementing classic CSCW paradigms (Shape Factory, Hidden Profile) with configurable interaction controls over communication modality, resource interdependence, and agent behavior [5].
  - *LLM-Powered Story-Reading for Children (EMNLP 2024 & CHI 2025)*
    - Developed a Knowledge-Graph-Embedded Annotation Framework to collect a 5k+ KG-Augmented Dataset [2].
    - Built an LLM-powered personalized story-reading tool and qualitatively interviewed with multi-stakeholders [1][4].

## Publications

- ACL 2026 [6] **Multi-Agent-as-Judge: Aligning LLM-Agent-Based Automated Evaluation with Multi-Dimensional Human Evaluation**  
**Jiaju Chen**, Yuxuan Lu, Xiaojie Wang, Huimin Zeng, Jing Huang, Jiri Gesi, Ying Xu, Bingsheng Yao, Dakuo Wang.  
*In Proceedings of the 64th Annual Meeting of the Association for Computational Linguistics.*

- CHI 2026 [5] **Through the Lens of Human-Human Collaboration: A Configurable Research Platform for Exploring Human-Agent Collaboration**  
Bingsheng Yao\*, **Jiaju Chen\***, Chaoran Chen, April Wang, Toby Jia-jun Li, Dakuo Wang. (\* equal contribution)  
In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems.
- CHI 2025 [4] **Characterizing LLM-Empowered Personalized Story-Reading and Interaction for Children: Insights from Multi-Stakeholder Perspectives**  
**Jiaju Chen**, Minglong Tang, Yuxuan Lu, Bingsheng Yao, Elissa Fan, Xiaojuan Ma, Ying Xu, Dakuo Wang, Yuling Sun, Liang He.  
In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems*.
- CHI 2025 [3] **Live-Streaming-Based Dual-Teacher Classes for Equitable Education: Insights and Challenges From Local Teachers' Perspective in Disadvantaged Areas**  
Yuling Sun, **Jiaju Chen**, Xiaomu Zhou, Xiaojuan Ma, Bingsheng Yao, Kai Zhang, Liang He, Dakuo Wang.  
In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems*.
- EMNLP 2024 [2] **StorySparkQA: Expert-Annotated QA Pairs with Real-World Knowledge for Children's Story-Based Learning**  
**Jiaju Chen**, Yuxuan Lu, Shao Zhang, Bingsheng Yao, Yuanzhe Dong, Ying Xu, Yunyao Li, Qianwen Wang, Dakuo Wang, Yuling Sun.  
In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.
- CSCW 2024 [1] **Exploring Parent's Needs for Children-Centered AI to Support Preschoolers' Interactive Storytelling and Reading Activities**  
Yuling Sun, **Jiaju Chen**, Bingsheng Yao, Jiali Liu, Dakuo Wang, Xiaojuan Ma, Yuxuan Lu, Ying Xu, Liang He.  
In *Proceedings of the ACM on Human-Computer Interaction 8 (CSCW2)*.

## Technical Skills

**Programming languages:** JavaScript, Python, C/C++, HTML, Java, SQL  
**Libraries/Platforms:** React, VUE, Flask, PyTorch, Pandas

## Honors and Scholarships

- 2023 First Class Scholarship of East China Normal University  
2023, 2022 Excellent Student Leader (Top 2%) of East China Normal University  
2021 Special Scholarship (Top 2%) of East China Normal University

## Professional Experience

- Summer 2025 **SLB** – Houston, Texas  
Software Engineer Intern

## Services

- 2026 **Reviewer** @ IJHCS  
2025 **Reviewer** @ CHI 2026, EMNLP 2025, **Student Volunteer** @ ACM CHI 2025  
2024 **Reviewer** @ ACL Rolling Review, Information Processing and Management