

# Xinyi Lu

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## RESEARCH INTEREST

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My research centers on designing and developing Human-AI collaborative systems that supports the creation of high-quality educational content. This line of work includes systems that provides instructors with on-demand controllable AI assistance for designing quiz questions and worked examples, and a pipeline of using LLM-simulated students to evaluate and refine question items. Building on my experience of designing AI-based systems for education, I explore the desirable amount and form of AI assistant for educational content and facilitate active learning.

## EDUCATION

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<b>University of Michigan</b> <i>Ph.D. student in Computer Science Engineering, adviser by <u>Dr. Xu Wang</u></i>	Sep 2023 – Present <i>Ann Arbor, MI</i>
<b>University of Michigan</b> <i>BS in Computer Science Engineering</i>	Sep 2021 – May 2023 <i>Ann Arbor, MI</i>
<b>Shanghai Jiao Tong University</b> <i>BS in Electrical and Computer Engineering</i>	Sep 2019 – Aug 2021 <i>Shanghai, China</i>

## PUBLICATION

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- **Xinyi Lu**, Simin Fan, Jessica Houghton, Lu Wang, Xu Wang. “ReadingQuizMaker: A Human-NLP Collaborative System that Supports Instructors to Design High-Quality Reading Quiz Questions”, In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (**CHI 2023**). **Best Paper Honorable Mention** .
- **Xinyi Lu**, Xu Wang. “Generative Students: Using LLM-Simulated Student Profiles to Support Question Item Evaluation”, In Proceedings of the eleventh ACM Conference on Learning@Scale (**L@S 2024**).
- **Xinyi Lu**, Mitchell Dudley, Raelin Musuraca, Lu Wang, Xu Wang. “Exemplify: Understanding How Instructors Use AI to Create Interactive Worked Examples as Scaffolding Exercises”, Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (**CHI 2025**) [In Submission].
- Xiaoyu Liu, **Xinyi Lu**, Soobin Jeon, Yunyan Li, Joshua Littenberg-Tobias, Shawn Y Stevens, Ying Xu, Xu Wang. “To Chat or to Quiz?: Examining the Pedagogical Benefits and Risks of AI Tutors in Facilitating High School Science Learning from Videos”, Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (**CHI 2025**) [In Submission].
- Xinyue Chen, Nathan Yap, **Xinyi Lu**, Aylin Gunal, Xu Wang. MeetMap: Generating Dialogue Maps as Real-Time Cognitive Scaffolds for Online Meetings. In Proceedings of the ACM on Human-Computer Interaction (**CSCW 2025**) [In Submission]

## TEACHING EXPERIENCE

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<b>Introduction to Machine Learning, Instructional Aide</b> <i>University of Michigan. Instructor: <u>Sindhu Kutty</u></i>	Sep 2022 – Dec 2022 <i>Ann Arbor, MI</i>
<b>Discrete Mathematics, Teaching Assistant</b> <i>Shanghai Jiao Tong University. Instructor: <u>Runze Cai</u></i>	May 2022 – Aug 2022 <i>Shanghai, China</i>

## COMMUNITY SERVICE

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- **Workshop Organizer:** Learnersourcing: Student-Generated Content @ Scale (L@S 2024)
- **Reviewer:** CSCW 2023 Posters, CHI 2024, L@S 2024, CHI 2025
- **Co-leader:** Explore Computer Science Research program (Explore CSR 2024-2025) at University of Michigan

## HONORS AND SCHOLARSHIPS

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- Rackham Traveling Grant (\$900), University of Michigan, 2024
- CSE Fellowship (\$36000), University of Michigan, 2023
- Gary Marsden Travel Awards (\$2500), SIGCHI, 2023
- Honorable Mention Award (5%), ACM CHI 2023
- Graduate with Honors, Shanghai Jiao Tong University, 2023
- Finalist, Interdisciplinary Contest In Modeling (ICM), 2021
- Student Development Scholarship, Shanghai Jiao Tong University, 2020, 2021
- Undergraduate Outstanding Scholarship, Shanghai Jiao Tong University, 2020, 2021

## RELEVANT CERTIFICATES AND SKILLS

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- **Programming language:** C/C++, Python, Java, JavaScript, HTML, CSS, SQL, L<sup>A</sup>T<sub>E</sub>X, R, MATLAB
- **Framework:** Pytorch, Numpy, TensorFlow, Django, Jinja2, MySQL, SQLite, MongoDB, Flask, React
- **Application and Tools:** AWS, GCP, Git, Digital Ocean, Mathematica, Origin, SolidWorks