

Xinyue Chen

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Bio

My research focuses on designing interactive AI systems that enhance collaboration by fostering common ground and supporting sense-making. These systems address challenges across diverse contexts, such as video meetings, ideation, collaborative note-taking, and writing. Central to my work is the AI assistance dilemma—balancing AI’s role in supporting cognitively intensive tasks while preventing over-reliance. I develop design mechanisms that promote meta-cognition and critical engagement, ensuring AI empowers thoughtful and effective collaboration as a complement to, rather than a replacement for, human contributions.

Research Interest

Human-Computer Interaction; Human-centered AI; AI-Mediated Communication; Virtual and hybrid Meeting; Team collaboration.

Education

University of Michigan

PH.D. CANDIDATE, COMPUTER SCIENCE AND ENGINEERING

- Advisor: Dr. Xu Wang

Ann Arbor, MI

2021.09 - 2026.05 (expected)

Peking University

B.S IN INFORMATION MANAGEMENT

- Graduate with Honors
- undergrad research advisor: Dr. Pengyi Zhang

Beijing, China

2017.09 - 2021.06

Professional Experience

Microsoft Research Cambridge

RESEARCH SCIENTIST INTERN

- Mentors: Sean Rintel, Payod Panda, and Lev Tankelevitch.
- Lead author on a paper under second-round review at CHI 2025 (S.04): Conducted a technology probe study with 15 knowledge workers using real meeting data and two functional AI-assisted reflection probes (passive and active designs) to explore how to support intentional meeting experience.
- Collaborated on two additional papers about meeting lifecycles under second-round review at CHI 2025 (S.03, S.02)
- Delivered internal reports and presentations to the Microsoft Teams product team and make product contributions.

Cambridge, UK (Remote)

Summer 2024

Publications

STRINGENTLY PEER-REVIEWED CONFERENCE AND JOURNAL PUBLICATION

[C.06] **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 (**CSCW2025**)

[C.05] **Xinyue Chen**^{*1}, Vitaliy Popov^{*}, Jingying Wang, Michael Kemp, Gurjit Sandhu, Taylor Kantor, Natalie Mateju, Xu Wang. Looking Together ≠ Seeing the Same Thing: Understanding Surgeons’ Visual Needs During Intra-operative Coordination and Instruction. (**CHI2024**) (🏆**Best Paper Honorable Mention Award Top 5%**)

^{1*} means equally contributed co-first author

- [C.04] **Xinyue Chen**, Shuo Li, Shipeng Liu, Robin Fowler, Xu Wang. MeetScript: Designing Transcript-based Interactions to Support Active Participation in Group Video Meetings. In Proceedings of the ACM on Human-Computer Interaction (**CSCW2023**)
- [C.03] **Xinyue Chen***, Si Chen*, Zhicong Lu, and Yun Huang. “My Culture, My People, My Hometown”: Chinese Ethnic Minorities Seeking Cultural Sustainability by Video Blogging. In Proceedings of the ACM on Human-Computer Interaction (**CSCW2023**)
- [C.02] **Xinyue Chen**, Xu Wang. Towards Scaling Mixed-Methods Formative Assessments(MixFA) in Classrooms: A Clustering Pipeline to Identify Student Knowledge. In International Conference on Artificial Intelligence in Education (**AIED2022**)
- [C.01] **Xinyue Chen**, Si Chen, Xu Wang, and Yun Huang. “I was afraid, but now I enjoy being a streamer!”: Understanding the Challenges and Prospects of Using Live Video Streaming for Online Education. In Proceedings of the ACM on Human-Computer Interaction (**CSCW2021**). (🏆**Best Paper Honorable Mention Award Top 5%**)

PAPER UNDER SUBMISSION

- [S.05] **Xinyue Chen**, Kunlin Ruan, Kexin Ju, Nathan Yap, Xu Wang. More AI Assistance Reduces Cognitive Engagement: Examining the AI Assistance Dilemma in AI-Supported Note-Taking. Under review in CSCW2025
- [S.04] **Xinyue Chen**, Lev Tankelevitch, Rishi Vanukuru, Ava Scott, Payod Panda, Sean Rintel. Are We On Track? AI-Assisted Active and Passive Goal Reflection During Meetings. Second Round R&R at CHI2025
- [S.03] Rishi Vanukuru, Payod Panda, **Xinyue Chen**, Ava Scott, Lev Tankelevitch, Sean Rintel. Strengthening the Chain of Intentionality Across Meetings: AI-Assisted Retrospection and Prospection For Knowledge Work. Second Round R&R at CHI 2025
- [S.02] Ava Scott, Lev Tankelevitch, Payod Panda, Rishi Vanukuru, **Xinyue Chen**, Sean Rintel. What Does Success Look Like? Catalyzing Meeting Intentionality with AI-Assisted Prospective Reflection. Second Round R&R at CHI 2025
- [S.01] Zhang, Zheng, Weirui Peng, **Xinyue Chen**, Luke Cao, and Toby Jia-Jun Li. LADICA: A Large Shared Display Interface for Generative AI Cognitive Assistance in Co-Located Team Collaboration. Second Round R&R at CHI 2025.

WORKSHOP/POSTER/DEMO

- [W.03] **Xinyue Chen**, Xu Wang. Balancing Cognitive Effort and AI Assistance: an AI-assisted Sensemaking Framework for Synchronous Communication (**CHI2024 Sensemaking Workshop**)
- [W.02] **Xinyue Chen**, Shuo Li, Shipeng Liu, Robin Fowler, Xu Wang. MeetScript: Transcript-based Interactions Give People Additional Participation Channels in Group Video Meetings. (**CSCW2023 Demo**)
- [W.01] Vitaliy Popov, **Xinyue Chen**, Michael Kemp, Gurjit Sandhu, Taylor Kantor, Natalie Mateju, Xu Wang. Towards Supporting Intraoperative Coordination and Entrustment in Surgical Faculty-Resident Dyads: Looking Together is not Seeing the Same Thing. In CHI Conference on Human Factors in Computing Systems Extended Abstracts (**CHI2022 LBW**)

Presentations

- 2024.05 . *Looking Together ≠ Seeing the Same Thing: Understanding Surgeons’ Visual Needs During Intra-operative Coordination and Instruction.*. Paper Presentation: CHI2024, Honolulu, U.S.A
- 2023.11 . *Leveraging AI to Support Participation and Sense-making in Synchronous Group Discussion.* Research Presentation: Notre Dame Trustworthy AI Lab for Education Summit, Notre Dame, U.S.A.
- 2023.10 . *MeetScript: Transcript-based Interactions Give People Additional Participation Channels in Group Video Meetings.* . Paper Presentation: CSCW2023, Minneapolis, U.S.A.
- 2022.07 . *Towards Scaling Mixed-Methods Formative Assessments(MixFA) in Classrooms: A Clustering Pipeline to Identify Student Knowledge.* Paper Presentation: AIED2022, Durham, UK.
- 2020.10 . *“I was afraid, but now I enjoy being a streamer!”: Understanding the Challenges and Prospects of Using Live Video Streaming for Online Education.* Paper Presentation, CSCW2020, Virtual.

Research Experience

- 2021- now **University of Michigan**, Research Assistant, Advisor: Xu Wang
2020-2021 **University of Illinois Urbana-Champaign**, Remote Research Intern, Advisor: Yun Huang
2017-2021 **Peking University**, Undergraduate research Assistant, Advisor: Pengyi Zhang

Professional Experience

Awards, Fellowships, & Grants

- 2024.04 **Honorable Mention Award (5%)**, ACM CHI 2024
2024.03 **Barbour Scholars 2024-2025**, the most prestigious scholarship funds exceptional women from Asia in the University of Michigan \$40000
2023.10 **Rackham Traveling Grant**, University of Michigan \$900
2022.07 **Rackham Traveling Grant**, University of Michigan \$1100
2021.09 **CSE Fellowship**, University of Michigan \$36000
2021.06 **Graduate with Honors**, Peking University
2020.10 **Honorable Mention Award (5%)**, ACM CSCW 2020
2020.09 **Robin Li Scholarship**, Peking University \$3000
2019.09 **Merit Student**, Peking University

Teaching Experience

- Winter'23 **User Interface Development**, Graduate Student Instructor, University of Michigan. MI, US
Spring'21 **Information Organization**, Teaching Assistant, Peking University Beijing, China

Mentoring

- 2024 **Kexin Ju**, Master student in University of Michigan, School of Information
2024 **Kunlin Ruan**, Undergraduate student in University of Michigan, CSE
2023 **Aylin Gunal**, Master student at University of Michigan, CSE
2023 **Nathan Yap**, Undergraduate student in University of Michigan, CSE
2022 **Shuo Li**, Undergraduate student in University of Michigan, CSE
2022 **Rehema Abulikemu**, Undergraduate student in Peking University, Now Ph.D. Student at Virginia Tech
2021 **Ke Li**, Undergraduate student in Peking University, Now UX Researcher at Alibaba

Academic Service

SERVICE

- 2022.05 **CHI2022**, Student Volunteer

PEER REVIEW

- Reviews**, CHI2022, CHI2023, CHI2024, CHI2025* CSCW2022*, CSCW2024*, UIST2024*, CHI LBW 2021, 2022, 2024; CHI Case Study 2022
Associate Chair, CSCW 2023 Poster Circle
* means special recognition for outstanding reviews,

References

Xu Wang , xwanghci@umich.edu, Assistant Professor in University of Michigan
Yun Huang , yunhuang@illinois.edu, Assistant Professor in UIUC
Pengyi Zhang , pengyi@pku.edu.cn, Associate Professor in Peking University

Skills

Technical Skills, Python (Tensorflow, Spacy, Scikit learn), R, C++, Web development (React, Typescript, JQuery, Django, Flask, Node.js), Swift.UI, Database (MySQL, Postgres, ElasticSearch), Generative AI (OpenAI API, LangChain, AutoGPT, Llama2)
UX research, Contextual Inquiry, User Interview, Affinity Diagram, Storyboarding, Prototyping, Thematic analysis