Xu Wang Curriculum Vitæ

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Ann Arbor, MI 48109

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xwanghci@umich.edu

Academic Positions

01/2021 – **University of Michigan, Ann Arbor**
Assistant Professor, Computer Science and Engineering
Assistant Professor (by courtesy), School of Information

09/2020 – 12/2020 **Carnegie Mellon University**
Postdoctoral Fellow, Human-Computer Interaction Institute, School of Computer Science

Education

08/2014 – 08/2020 **Carnegie Mellon University**
Ph.D. in Human-Computer Interaction
School of Computer Science
Thesis: Harnessing Student Solutions to Support Learning at Scale
Advisors: Kenneth R. Koedinger and Carolyn P. Rose

08/2013 – 06/2014 **Harvard University**
Master of Education in Technology, Innovation and Education
Graduate School of Education

09/2009 – 06/2013 **Beijing Normal University**
Bachelor of Science in Educational Technology

Awards and Honors

2026 **Learning@Scale 2026 Best Paper Award**

2025 **CSCW 2025 Best Paper Honorable Mention Award**

2025 **NSF CAREER Award**

2024 **Learning@Scale 2024 Best Paper Award Nominee**

2024 **CHI 2024 Best Paper Honorable Mention Award**

2024 **LAK 2024 Best Short Paper Award**

2023 **CHI 2023 Best Paper Honorable Mention Award**

2020 **CSCW 2020 Best Paper Honorable Mention Award**

2019 **Selected to participate in the 2019 EECS Rising Stars Workshop**

2019 **NSF I-Corps Award**

2017 **CSCL 2017 Doctoral Consortium Travel Grant**

Stringently Peer-Reviewed Conference and Journal Papers

In Human-Computer Interaction, Educational Technologies and related Computer Science domains, the top-tier publication venues include CHI, Learning@Scale, AIED, CSCW, etc., where papers are rigorously blind peer reviewed and typically have an acceptance rate of 20-30%.

[**C.40**] Hyoungwook Jin, Minju Yoo, Jieun Han, Zixin Chen, So-Yeon Ahn, **Xu Wang**. RelianceScope: An Analytical Framework for Examining Students' Reliance on Generative AI Chatbots in Problem Solving. In *Proceedings of the 2024 ACM Conference on Learning @ Scale.* (**L@S 2026**) **Best Paper Award**

[**C.39**] Xinyi Lu, Kexin Phyllis Ju, Mitchell Dudley, Larissa Sano, **Xu Wang**. AI-Mediated Feedback Improves Student Revisions: A Randomized Trial with FeedbackWriter in a Large Undergraduate Course. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems.* (**CHI 2026**)

[**C.38**] Xinyue Chen, Varun Manjunatha, **Xu Wang**, Alexa Siu. From Conversation to Human-AI Common Ground: Extracting Cognitive Workflows for Reuse in Sense-making Tasks. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems.* (**CHI 2026**)

[**C.37**] Xinyue Chen, Kunlin Ruan, Kexin Phyllis Ju, Nathan Yap, **Xu Wang**. More AI Assistance Reduces Cognitive Engagement: Examining the AI Assistance Dilemma in AI-Supported Note-Taking. In *Proceedings of the ACM on Human-Computer Interaction.* (**CSCW 2025**) **Best Paper Honorable Mention**

[**C.36**] Xinyi Lu, Aditya Mahesh, Zejia Shen, Mitchell Dudley, Larissa Sano, **Xu Wang**. Exploring LLM-Generated Feedback for Economics Essays: How Teaching Assistants Evaluate and Envision Its Use. In *Proceedings of the 26th International Conference on Artificial Intelligence in Education.* (**AIED 2025**). Palermo, Italy, 2025. [Acceptance Rate: 19%]

[**C.35**] Muzhe Wu*, Haocheng Ren*, Gregory Croisdale, Anhong Guo, **Xu Wang**. Rubikon: Intelligent Tutoring for Rubik's Cube Learning Through AR-enabled Physical Task Reconfiguration. In *Proceedings of the 2025 ACM Conference on Designing Interactive Systems.* (**DIS 2025**). Madeira, Portugal, 2025. [Acceptance Rate: 24.2%]

[**C.34**] Jingying Wang, Jingjing Zhang, Juana Nicoll Capizzano, Matthew Sigakis, **Xu Wang***, Vitaliy Popov*. eXplainMR: Generating Real-time Textual and Visual eXplanations to Facilitate UltraSonography Learning in MR. In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems.* (**CHI 2025**)

[**C.33**] Hyoungwook Jin, Minju Yoo, Jeongeon Park, Yokyung Lee, **Xu Wang**, Juho Kim. TeachTune: Reviewing Pedagogical Agents Against Diverse Student Profiles with Simulated Students. In *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems.* (**CHI 2025**)

[**C.32**] Xinyue Chen, Nathan Yap, Xinyi Lu, Aylin Gunal, **Xu Wang**. MeetMap: Real-Time Collaborative Dialogue Mapping with LLMs in Online Meetings. In *Proceedings of the ACM on Human-Computer Interaction.* (**CSCW 2025**)

[**C.31**] Inderjeet Nair, Jiaye Tan, Xiaotian Su, Anne Gere, **Xu Wang**, Lu Wang. Closing the Loop: Learning to Generate Writing Feedback via Language Model Simulated Student Revisions. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing.* (**EMNLP 2024**, oral)

[**C.30**] Xinyi Lu, **Xu Wang**. Generative Students: Using LLM-Simulated Student Profiles to Support Question Item Evaluation. In *Proceedings of the 2024 ACM Conference on Learning @ Scale.* (**L@S 2024**)

[**C.29**] Xinying Hou, Zihan Wu, **Xu Wang**, Barbara Ericson. Personalized Parsons Puzzles are Preferred Over AI-Generated Code to Support Programming Learning. In *Proceedings of the 2024 ACM Conference on Learning @ Scale. (***L@S 2024***)* **Best Paper Nominee**

[**C.28**] Jingying Wang, Haoran Tang, Taylor Kantor, Tandis Soltani, Vitaliy Popov, **Xu Wang**. Surgment: Segmentation-enabled Semantic Search and Creation of Visual Question and Feedback to Support Video-Based Surgery Learning. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems.* (**CHI 2024**)

[**C.27**] Xinyue Chen*, 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. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems.* (**CHI 2024**) **Best Paper Honorable Mention**

[**C.26**] Anjali Singh, Christopher Brooks, **Xu Wang**, Warren Li, Juho Kim, Deepti Pandey. Bridging Learnersourcing and AI: Exploring the Dynamics of Student-AI Collaborative Feedback Generation. In *Proceedings of the 14th Learning Analytics and Knowledge Conference.* (**LAK 2024**) **Best Short Paper Award**

[**C.25**] Nahyun Kwon, Tong Steven Sun, Yuyang Gao, Liang Zhao, **Xu Wang**, Jeeeun Kim, Sungsoo Ray Hong. 3DPFIX: Improving Remote Novices' 3D Printing Troubleshooting Experience through Human-AI Collaboration Design. In *Proceedings of the ACM on Human-Computer Interaction.* (**CSCW 2024**)

[**C.24**] Xinying Hou, Barbara Ericson, **Xu Wang**. Understanding the Effects of Using Parsons Problems to Scaffold Code Writing for Students with Varying CS Self-Efficacy Levels. In *Proceedings of the 23rd Koli Calling International Conference on Computing Education Research.* (**Koli Calling 2023**)

[**C.23**] 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.* (**CSCW 2023**)

[**C.22**] Xiaofei Zhou, Chris Kok, Rebecca Quintana, Anita Delahay, **Xu Wang**. How Learning Experience Designers Make Design Decisions: the Role of Data, the Reliance on Subject Matter Expertise, and the Opportunities for Data-Driven Support. In *Proceedings of the 2023 ACM Conference on Learning@Scale.* (**L@S 2023**)

[**C.21**] 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**

[**C.20**] Xinyue Chen, **Xu Wang**. Scaling Mixed-Methods Formative Assessments in Classrooms: A Clustering Pipeline to Identify Student Knowledge. In *Proceedings of the 23rd International Conference on Artificial Intelligence in Education.* (**AIED 2022**)

[**C.19**] **Xu Wang**, Simin Fan, Jessica Houghton, Lu Wang. Towards Process-Oriented, Modular, and Versatile Question Generation that Meets Educational Needs. In *Proceedings of 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics.* (**NAACL 2022**)

[**C.18**] Xinying Hou, Barbara Ericson, **Xu Wang**. Using Adaptive Parsons Problems to Scaffold Write-Code Problems. In *ACM Conference on International Computing Education Research 2022.* (**ICER 2022**)

[**C.17**] **Xu Wang**, Carolyn Rose, Kenneth Koedinger. Seeing Beyond Expert Blind Spots: Online Learning Design for Scale and Quality. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems.* (**CHI 2021**)

[**C.16**] **Xu Wang**, Meredith Thompson, Kexin Yang, Dan Roy, Kenneth Koedinger, Carolyn Rose, Justin Reich. Practice-Based Teacher Education with ELK: A Role-Playing Simulation for Eliciting Learner Knowledge. In *Proceedings of the ACM on Human-Computer Interaction.* (**CSCW 2021**)

[**C.15**] Hong Shen, Wesley Deng, Aditi Chattopadhyay, Steven Wu, **Xu Wang**, Haiyi Zhu. Value Cards: An Educational Toolkit for Teaching Social Impacts of Machine Learning through Deliberation. In *Proceedings of the 2021 ACM conference on fairness, accountability, and transparency.* (**FaccT 2021**)

[**C.14**] Xinyue Chen, Si Chen, **Xu Wang**, Yun Huang. (2020) "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.* (**CSCW 2020**) **Best Paper Honorable Mention**

[**C.13**] **Xu Wang**, Srinivasa Talluri, Carolyn Rose, Kenneth Koedinger. UpGrade: Sourcing Student Open-Ended Solutions to Create Scalable Learning Opportunities. In *Proceedings of the sixth ACM Conference on Learning@Scale.* (**L@S 2019**)

[**C.12**] **Xu Wang**, Benjamin Lafreniere, Tovi Grossman. Leveraging Community-Generated Videos and Command Logs to Classify and Recommend Software Workflows. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems.* (**CHI 2018**) Montréal, Canada.

[**C.11**] **Xu Wang**, Yali Chen, Amanda Godley, Carolyn Rose. Public Peer Review Motivates Higher Quality Feedback. In *Proceedings of the 13th International Conference of the Learning Sciences (***ICLS 2018***).* International Society of the Learning Sciences. London, United Kingdom. 2018.

[**C.10**] Sree Sankaranarayanan, Cameron Dashti, Chris Bogart, **Xu Wang**, Majd Sakr, Carolyn Rose. When Optimal Team Formation is a Choice – Self-Selection versus Intelligent Team Formation Strategies in a Large Online Project-Based Course. In *Proceedings of the 19th International Conference on Artificial Intelligence in Education (***AIED 2018***).* London, United Kingdom. 2018.

[**C.9**] Anhong Guo, Saige McVea, **Xu Wang**, Patrick Clary, Ken Goldman, Yang Li, Yu Zhong, Jeffrey Bigham. Investigating Cursor-based Interactions to Support Non-Visual Exploration in the Real World. In *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (***ASSETS 2018***).* Galway, Ireland. 2018.

[**C.8**] **Xu Wang**, Miaomiao Wen, Carolyn Rose. Contrasting Explicit and Implicit Scaffolding for Transactive Exchange in Team Oriented Project Based Learning. In *Proceedings of the 12th International Conference on Computer Supported Collaborative Learning (***CSCL 2017***)*. International Society of the Learning Sciences. Philadelphia, PA. 2017.

[**C.7**] **Xu Wang**, Miaomiao Wen, Carolyn Rose. Towards Triggering Higher-order Thinking Behaviors in MOOCs. In *Proceedings of the Sixth International Conference on Learning Analytics & Knowledge (***LAK 2016***)*. Edinburgh, Scotland. 2016.

[**C.6**] Miaomiao Wen, Keith Maki, **Xu Wang**, Steven Dow, James Herbsleb, Carolyn Rose. Transactivity as a Predictor of Future Collaborative Knowledge Integration in Team-Based Learning in Online Courses. In *Proceedings of the 8th International Conference on Educational Data Mining (***EDM 2016***)*. International Society of the Learning Sciences. Raleigh, NC. 2016.

[**C.5**] Gaurav Tomar, Sree Sankaranarayanan, **Xu Wang**, Carolyn Rose. Coordinating Collaborative Chat in Massive Open Online Courses. In *Proceedings of the 12th International Conference of the Learning Science (***ICLS 2016***)*. International Society of the Learning Sciences. Singapore. 2016.

[**C.4**] **Xu Wang**, Diyi Yang, Miaomiao Wen, Kenneth Koedinger, Carolyn Rose. Investigating How Student's Cognitive Behaviors in MOOC Discussion Forums Affect Learning Gains. In *Proceedings of the 8th International Conference on Educational Data Mining (***EDM 2015***)*. International Educational Data Mining Society. Madrid, Spain. 2015.

[**C.3**] Su Cai, **Xu Wang**, Feng-Kuang Chiang. A case study of Augmented Reality simulation system application in a chemistry course. *Computers in Human Behavior*. 37(8), 31-40. 2014.

[**C.2**] Su Cai, Feng-Kuang Chiang, **Xu Wang**. Using the Augmented Reality 3D Technique for a Convex Imaging Experiment in a Physics Course. *International Journal of Engineering Education*, 29(4), 856-865. 2013.

[**C.1**] Su Cai, **Xu Wang**, Mengnan Gao, Shengquan Yu. Simulation Teaching in 3D Augmented Reality Environment. In *Proceedings of the IIAI International Conference on Advanced Applied Informatics (***IIAI AAI 2012***)*. IEEE Computer Society. Fukuoka, Japan. 2012.

Lightly Reviewed Posters, Demos, and Workshops

[**A.10**] Jingying Wang, Vitaliy Popov, **Xu Wang**. SketchSearch: Fine-tuning Reference Maps to Create Exercises In Support of Video-based Learning for Surgeons. In *Adjunct Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (***UIST 2023 Demo***)*.

[**A.9**] Gregory Thomas Croisdale, John Joon Young Chung, Emily Huang, Gage Birchmeier, **Xu Wang**, Anhong Guo. DeckFlow: A Card Game Interface for Exploring Generative Model Flows. In *Adjunct Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (***UIST 2023 Demo***)*.

[**A.8**] Christopher Kok, **Xu Wang**. Comb: Giving Feedback to Short Answer at Scale with Human-in-the-Loop Rubric Creation. In *Proceedings of the 2023 ACM Conference on Learning @ Scale (***L@S 2023 Work-in-Progress***)*.

[**A.7**] Xinying Hou, Barbara Ericson and **Xu Wang**. Parsons Problems to Scaffold Code Writing: Impact on Performance and Problem-Solving Efficiency. In *Proceedings of the 2023 Conference on Innovation and Technology in Computer Science Education (***ITiCSE 2023 Poster***)*.

[**A.6**] Vitaliy Popov, Jingying Wang and **Xu Wang**. Leveraging Eye-Gaze Data to Augment Surgical Faculty-Resident Postoperative Case Video Analysis. In *the 2023 Annual Surgeons and Engineers*.

[**A.5**] Vitaliy Popov, Xinyue Chen, Michael Kemp, Gurjit Sandhu, Taylor Kantor, Natalie Mateju, and **Xu Wang**. Towards Supporting Intraoperative Coordination and Entrustment in Surgical Faculty-Resident Dyads: Looking Together ≠ Seeing the Same Thing. In *Proceedings of the 2022 CHI Conference Extended Abstracts on Human Factors in Computing Systems (***CHI 2022 Late Breaking Work***)*.

[**A.4**] Sreecharan Sankaranarayanan, **Xu Wang**, Cameron Dashti, Marshall An, Clarence Ngoh, Majd Sakr, and Carolyn Rose. An Intelligent-Agent Facilitated Scaffold for Fostering Reflection in a Team-Based Project Course. In *Proceedings of the 20th International Conference on Artificial Intelligence in Education (***AIED 2019 Poster***)*. Chicago, IL. 2019.

[**A.3**] Sreecharan Sankaranarayanan, Cameron Dashti, Christopher Bogart, **Xu Wang**, Majd Sakr, Michael Hilton, Carolyn Rose. Group formation in the digital age: Relevant characteristics, their diagnosis, and combination for productive collaboration. In *Proceedings of the 13th International Conference on Computer-Supported Collaborative Learning (***CSCL 2019 Symposium***)*. Lyon, France. 2019.

[**A.2**] Sreecharan Sankaranarayanan, **Xu Wang**, Cameron Dashti, Haokang An, Claernce Ngoh, Michael Hilton, Majd Sakr, and Carolyn Rose. Online Mob Programming: Bridging the 21st Century Workplace and the Classroom. In *Proceedings of the 13th International Conference on Computer-Supported Collaborative Learning (***CSCL 2019 Poster***)*. Lyon, France. 2019.

[**A.1**] **Xu Wang**. Public Peer Review for Collaborative Learning in MOOCs. In *Proceedings of the 12th International Conference on Computer Supported Collaborative Learning (***CSCL 2017 Doctoral Consortium***)*. Philadelphia, PA. 2017.

Grants

[**G.7**] *WGU Labs*. Building Agent Framework for the Current Skills Validation Initiative. 11/2025 - 11/2026. Total: $91,204. **Xu Wang (PI)**

[**G.6**] *National Science Foundation*. CAREER: Example-Enhanced Intelligent Tutoring. 7/2025 - 6/2030. Total: $670,000. **Xu Wang (PI)**

[**G.5**] *National Science Foundation*. SCH: Multimodal Techniques to Enhance Intra- and Post-operative Learning and Coordination between Attending and Resident Surgeons. 9/2024 - 8/2028. Total: $1,200,000. **Xu Wang (PI)**, Vitaliy Popov (Co-PI), Anhong Guo (Co-PI).

[**G.4**] *National Science Foundation*. RAPID DRL AI: Empowering Teachers to Collaborate with Generative AI for Developing High-Quality STEM Learning Resources. 12/2023 - 11/2024. Total: $200,000. **Xu Wang (PI)**, Ying Xu (Co-PI).

[**G.3**] *National Science Foundation*. Argument Graph Supported Multi-Level Approach for Argumentative Writing Assistance. 08/2023 - 07/2026. Total: $849,799. Lu Wang (PI), **Xu Wang (Co-PI)**.

[**G.2**] *Michigan Engineering*. Michigan Seeding to Accelerate Research Themes Funding [START 1044 - Designing In-Situ Learning Experiences for Explainable AI. 2022 - 2023. Total: $45,000. **Xu Wang (PI)**, Anhong Guo (PI), Nikola Banovic (PI).

[**G.1**] *University of Michigan*. Michigan Provost's Early Tenure-Track Faculty Research Support. 2022 - 2022. Total: $3,000. **Xu Wang (PI)**.

Patents

[**P.1**] Tovi Grossman, Benjamin Lafreniere, **Xu Wang**. Leveraging Community-Generated Videos and Command Logs to Classify and Recommend Software Workflows. Filed: 2019-01-14. Granted: 2023-11-21. Patent No. US-11823015-B2.

Teaching

Primary Instructor

EECS493: User Interface Development
Computer Science and Engineering, University of Michigan
Fall 2021, Fall 2022, Winter 2024, Winter 2025, Winter 2026

EECS498/598: Technologies to Optimize Human Learning/AI in Education
Computer Science and Engineering, University of Michigan
Winter 2021, Winter 2022, Fall 2024, Fall 2025

Teaching Assistant

2018 **05834: Applied Machine Learning**
School of Computer Science, Carnegie Mellon University
Instructor: Carolyn P. Rose

2017 **05610: User Centered Research & Evaluation**
School of Computer Science, Carnegie Mellon University
Instructors: Amy Ogan, Jim Morris

Professional Experience

05/2017 – 08/2017 **Autodesk Research, Toronto**
Research Intern on intelligent learning (UI Research Group)
Mentor: Tovi Grossman
Developed techniques to classify and recommend software workflows leveraging community-generated videos and command logs (*CHI '18*)

05/2016 – 08/2016 **Autodesk, San Francisco**
Research Intern on competency modeling
Mentors: Adam Menter, and Alexandra Bergin

02/2014 – 05/2014 **HarvardX, Harvard University**
Research Intern on qualitative course comparison

Invited Talks and Presentations

2/2026 **Does GenAI Work in Education? Two Stories: Knowledge-Engineered Feedback Generation and Cognitively Aligned Interface Design**
Stanford HCI Seminar

12/2025 **Does GenAI Work in Education? Two Stories on Feedback Generation and the AI Assistance Dilemma**
Keynote Speaker at Northwestern's Center for Engineering Education Research Insight Workshop

4/2025 - 7/2025 **Human-AI Collaborative Interfaces that Enable Efficient Authoring of Tutoring Systems**
University of Rochester
Schoolcraft College
Michigan Engineering Innovation Days (EEI) Symposium
Merit Network Conference

9/2024 **Multimodal Techniques to Enhance Intra- and Post-operative Learning and Coordination between Attending and Resident Surgeons**
Ohio State University, BMI Seminar

4/2024 **AI and Student Learning: What We Know (and What We Don't)**
Invited panelist at an editorial webinar by Inside Higher Ed with panelists Derek Bruff and Danielle McNamara

7/2023 - 3/2024 **Teacher-AI Collaborative Interfaces to Create Tutoring Opportunities**
Invited speaker at the U-M Generative AI Faculty Workshop
Invited speaker at the U-M Information and Technology Services
Invited speaker at the UM-PKU (Peking University) Institute for Innovative Teaching

4/2023 **An HCI Perspective for NLP**
Invited panelist at an ACL (Annual Meeting of the Association for Computational Linguistics) Mentorship session

12/2021 **Panel: Learnersourcing at the nexus of human and artificial intelligence**
Invited speaker at the 2021 Empowering Learners in AI conference with panelists Chris Brooks, Shayan Doroudi, and John Stamper

11/2021 - 12/2022 **Human-AI Collaborative Methods for Instructional Design**
Guest Lecture at Worcester Polytechnic Institute hosted by Neil Heffernan
Guest Lecture at University of Vermont hosted by Yuanyuan Feng
Guest Lecture at University of Michigan hosted by Nikola Banovic
Guest Lecture at University of Michigan hosted by Anhong Guo

10/2021 **Sourcing Student Open-Ended Solutions to Create Scalable Learning Opportunities**
Invited Talk, Michigan AI Symposium

9/2021 **Learning Analytics & Education Research Data webinar**
Hosted by PEERS Data Hub, AERA (American Educational Research Association) with panelists Rene Kizilcec, Ben Motz, James Russell

2/2021 **Harnessing Student Solutions to Support Learning at Scale**
The Texas Human-Computer Interaction (TxHCI) Seminar Series (Host: Jeeeun Kim)

Spring 2020 **Harnessing Examples for Learning at Scale**
University of Illinois Urbana-Champaign, Department of Computer Science
University of Michigan, Computer Science and Engineering
Autodesk Research
University of Pittsburgh, School of Computing and Information
University of Wisconsin Madison, Department of Computer Sciences

11/2019 **Building Quality and Scalable Educational Experience through Human-AI Partnership**
University of Minnesota, Learning Informatics Seminar (Host: Sashank Varma, Bodong Chen)

03/2019 **UpGrade: Sourcing Student Open-Ended Solutions to Create Scalable Learning Opportunities**
CMU Guest Lecture, Course 05840: Tools for Online Learning (Host: Chinmay Kulkarni)

04/2017 **Scaling Peer Interaction and Assessment for Better and More Efficient Online Learning**
Ecopia Tech Inc., Toronto (Host: Yuanming Shu)

03/2017 **Discussion-based Interventions in MOOCs**
Building the Learning Analytics Curriculum Workshop at LAK '17, Vancouver

01/2017 **MOOC Forum Analysis Techniques and Collaborative Learning Support**
Beijing Normal University (Host: Shengquan Yu)

Mentoring

Ph.D. Students

08/2021 – **Xinyue Chen**

08/2022 – **Jingying Wang**
co-advised with Vitaliy Popov

08/2023 – **Xinyi Lu**

08/2023-
08/2024 – **Anjali Singh**
co-advised with Chris Brooks
Current position: Bullard Postdoctoral Fellow at the UT Austin

08/2025 – **Ethan Beaird**

08/2025 – **Hyoungwook Jin**

08/2025 – **Weirui Peng**
co-advised with Eytan Adar

08/2025 – **Muzhe Wu**
co-advised with Anhong Guo

Master's Students at the University of Michigan

Phyllis Kexin Ju [2024-], Xiaoyu Liu [01/2024-], Aylin Gunal [2023], Christopher Kok [2023], Jingying Wang [03/2022-08/2022] (co-advised with Vitaliy Popov. Next Position: Ph.D. student at the University of Michigan), Zhaoyuan Zhang [08/2021-12/2021], Erin Deutschman [05/2021-08/2021] (co-advised with Barbara Ericson)

Undergraduate Students at the University of Michigan

Jiarui Kenneth Zhang, Vijayavarshini Anbu, Ovidiu Marina, Adi Mahesh, Zejia Shen, Kunlin Ruan, Jingjing Zhang, Nathan Yap [08/2023-], Haoran Tang [08/2023-], Zirui Zhao [08/2022-], Haocheng Ren [05/2022-] (co-advised with Anhong Guo), Muzhe Wu [05/2022-] (co-advised with Anhong Guo.), Xinyi Lu [05/2022-], Shuo Li [05/2022-], Haipeng Xu[05/2022-], Zeyi Ren [05/2022-], Zhixuan Chen [05/2022-], Heyi Xu [05/2022-08/2022], Jiachun Zhang [05/2022-08/2022], Jessie Houghton [08/2021-08/2022] (Next Position: Product Manager at Microsoft), Olivia Fan [05/2021-08/2022] (co-advised with Lu Wang. Next Position: Ph.D. student at EPFL), Thomas Hu [01/2022-05/2022] (co-advised with Chris Brooks. Next Position: M.S. student at the University of Michigan), Issac Moothart [08/2021-12/2021] (Undergraduate Honors Thesis. Next Position: M.S. student at the University of Michigan), Matthew Tomaszewski [08/2021-05/2022] (Next Position: M.S. student at the University of Michigan), Trevor Lee [01/2022-05/2022], Brandon Garzez [08/2021-12/2021], Lyubing Qiang [05/2021-08/2021] (co-advised with Vitaliy Popov), Nithin Weerasinghe [01/2021-05/2021] (co-advised with Barbara Ericson)

Ph.D. Dissertation Committee

Xiaping Li [2026], University of Michigan, Chair: Cindy Finelli
Kexin Yang [2025], Carnegie Mellon University, Chair: Vincent Aleven
Zheng Zhang [2025], University of Notre Dame, Chair: Toby Jia-jun Li
Eric Junhan Kim [2025], UMSI, Chair: Sun Young Park
Sumit Asthana [2025], UM CSE, Chair: Nikola Banovic
Warren Li [4/2024], UMSI, Chair: Chris Brooks
Ryan Burton [12/2023], UMSI, Chair: Kevin Collins-Thompson
Cristian-Paul Bara [12/2022], UM CSE, Chair: Joyce Chai

Students Mentored Prior to Michigan

Daniel De Angulo [08/2020-05/2021])Masters student at Carnegie Mellon University), Shipeng Liu [08/2020-01/2021] (Undergraduate student at Tongji University. Next Position: Ph.D. student at the University of Southern California), Xinyue Chen [08/2020-08/2021] (Undergraduate student at Peking University. Next Position: Ph.D. student at the University of Michigan), Alexis Soto [08/2019-12/2019] (Undergraduate student at Carnegie Mellon University), Kexin Yang [08/2019-12/2019] (Masters student at Carnegie Mellon University. Next Position: Ph.D. student at Carnegie Mellon University), Teja Talluri [05/2018-05/2019] (Masters student at Carnegie Mellon University. Next Position: Data Scientist at Inspire), Jiaojiao Song [08/2018-12/2018] (Masters student at Carnegie Mellon University), Rajitha Pulivarthy [08/2018-12/2018] (Undergraduate student at Carnegie Mellon University), Yali Chen [08/2017-05/2018] (Masters student at Carnegie Mellon University. Next Position: Product Manager at Cengage)

Service

2023 – 2024 **Program Co-Chair**
ACM Learning@Scale 2024

2022 – **Steering Committee**
ACM Learning@Scale

2020 – **Program Committee**
ACM CHI 2021, 2022, 2023
UIST 2024
GCCCE 2021, 2023

2017 – **Journal Reviewer**
AERA Open
Journal of Artificial Intelligence in Education
Journal of American Education Research Association
IEEE Transactions on Emerging Topics in Computing
PLOS One
British Journal of Educational Technology
International Journal of Computer-Supported Collaborative Learning

2017 – **Conference Reviewer**
I regularly review for CHI, L@S, AIED, CSCW, UIST.

Last updated: August 10, 2026