

# Wendy Shi

Website: wenxuans.github.io

Email: wshi16@illinois.edu

## Research Interests

My research aims to design, build, and test systems and methods that support collaboration and learning in teams. By bringing together knowledge and techniques from computer science, the learning sciences, psychology, and other fields, I work towards designing systems that integrate data-driven techniques with human decision-making to promote effective teamwork. My dissertation (to be completed Spring 2025) investigates how we can augment evaluations of teamwork by leveraging cross-tool log data from collaboration tools while providing teams control over their own data.

## Education

- 2018-2025 **PhD in Computer Science**  
University of Illinois - Urbana-Champaign  
*Proposed Thesis: Augmenting Evaluations of Teamwork Using Cross-Tool Log Data*  
*Advisor: Brian Bailey*
- 2014-2018 **BS in Computer Science**  
**BA in Social Sciences Interdisciplinary (Cognitive Science)**  
University at Buffalo, SUNY (UB)

## Publications

### PEER REVIEWED PUBLICATIONS

- 2025 **Wenxuan Wendy Shi**, Linna Niu, Yifan Song, Rohan Kumar, Erin Kirsten, Brian P. Bailey. Design and Evaluation of an Interactive Data-Augmented System for Peer Evaluations of Teamwork. (*In preparation*)
- 2023 **Wenxuan Wendy Shi**, Sneha R. Krishna Kumaran, Hari Sundaram, Brian P. Bailey. The Value of Activity Traces in Peer Evaluations: An Experimental Study. In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*.  
🏆 Best Paper Award
- 2021 **Wenxuan Wendy Shi**, Akshaya Jagannadharao, Jaewook Lee, Brian P. Bailey. Challenges and Opportunities for Data-Centric Peer Evaluation Tools for Teamwork. In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*.
- 2021 Sneha R. Krishna Kumaran, **Wenxuan Wendy Shi**, Brian P. Bailey. Am I Ready to Get Feedback? A Taxonomy of Factors Creators Consider Before Seeking Feedback on In-Progress Creative Work. In *Proceedings of the ACM Conference on Creativity and Cognition (C&C)*. (Acceptance Rate: 23%).  
🏆 Best Paper Honorable Mention Award

### WORKSHOP PAPERS

- 2023 **Wenxuan Wendy Shi** and Brian P. Bailey. 2023. Towards a Data-Centric Approach to Peer Evaluations of Teamwork. Position paper for *Supporting Workers in Developing Effective Collaboration Skills for Complex Work* workshop at ACM CSCW Conference on Computer-Supported Cooperative Work and Social Computing.

# Teaching Experience

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Served as a teaching assistant for 7 computer science courses over 12 academic terms, including introductory courses, project-based courses, and upper-level electives. Facilitated learning in class sizes ranging from 20 to 600+ students.

- 2024     **CS467 Social Visualization**, TA (UIUC) (Spring 2024)  
Mentored teams of 2-5 students on a series of mini-projects where they designed and implemented visualizations of social data. Delivered a lecture on cognition and perception for visualization design. Graded and provided feedback on assignments and projects, created and adapted course content (labs, lectures, rubrics), analyzed peer evaluation data, held weekly office hours.  
Course enrollment: 70 students.
- 2021-2023     **CS465 User Interface Design**, TA (UIUC) (Fall 2021/22/23)  
Mentored teams of 3-6 on a semester-long project where they designed and built a user interface of their choice, following a user-centered design process. Led weekly design studios of 20-30 students where I taught course concepts, facilitated group activities and presentations, graded and provided feedback on their work, and held weekly office hours. Generally taught two design studios a semester. Delivered an interactive Kahoot-based lecture, created and adapted course content (studio activities, exams, rubrics), and managed team formation and peer evaluations for all teams in the course. Deployed multiple research-driven interventions in the course for improving teamwork.  
Course enrollment: 180-200 students
- 2022     **CS565 Human-Computer Interaction**, TA (UIUC) (Spring 2022)  
Mentored teams of 2-4 students on a semester-long multi-part research project. Graded assignments and projects, provided feedback on research projects, and held weekly office hours. Managed team formation and peer evaluations for all teams in the course.  
Course enrollment: 40 students
- 2019-2021     **CS416 Data Visualization**, Head TA (UIUC) (Summer 2019/20/21)  
Managed fully online course of 600+ students. Graded visualization projects, tested new assignments, held weekly office hours, handled course discussion forum. I became Head TA in the third term and oversaw a staff of six graduate teaching assistants. As Head TA, I coordinated extensively with the professor on the course content, setting up online proctored exams, and course communication. I also organized office hours, managed the course discussion forum, and independently managed a private student support portal.  
Course enrollment: 400-600 students
- 2020     **CS519 Scientific Visualization**, TA (UIUC) (Fall 2020)  
Developed Python programming assignments where students used visualization techniques for various scientific applications (e.g. contour maps, volume visualizations, etc.), created weekly quizzes in PrairieLearn, graded assignments and projects, managed course discussion forum, and held weekly office hours.  
Course enrollment: 150 students
- 2020     **CS173 Discrete Structures**, TA (UIUC) (Spring 2020)  
Held weekly discussion sections of 20-30 students where I guided students through practice problems and answered questions (two sections). Graded assignments, proctored exams, and held weekly office hours.  
Course enrollment: 600 students
- 2018-2019     **CS210 Ethical and Professional Issues**, TA (UIUC) (Fall 2018, Spring 2019)  
Held weekly discussion sections of 20-30 students where I facilitated activities such as debates, case studies, and a Jeopardy game show (two sections). Developed and graded weekly writing assignments based on current events related to the course content.  
Course enrollment: 200 students
- 2017     **CSE199 How the Internet Works**, Undergrad TA (UB) (Fall 2017)  
Facilitated lab for a freshman seminar that provided an overview of the internet, including topics such as web design, computer security, and data science.

## Honors, Awards, and Grants

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2024	UIUC Strategic Instructional Innovations Program Grant (\$33,975)
2023	CSCW Best Paper Award (Top 1% of Submissions)
2023	UIUC Engineering GATE Award (Grants for Advancement of Teaching in Engineering) (\$10,000)
2021	ACM Creativity and Cognition Best Paper Honorable Mention Award
2021	UIUC CS Outstanding Teaching Assistant Award (\$200)
2018/19/21	UIUC List of Teachers Ranked as Excellent By Their Students 1 of 8 recipients in the CS department
2018	UIUC CS Excellence Award (\$3000) 1 of 4 recipients in department
2018	UB CS Leadership Award Sole recipient in the department
2014-2018	UB Presidential Scholar Full-ride merit scholarship, 1 of 22 recipients in the university.

## Mentoring

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2023-	Yifan Song (Junior PhD Student)
2024-	Rohan Kumar, UIUC CS B.S. '27
2024-	Linna Niu, UIUC CS B.S. '26
2022-2024	Erin Kirsten, UIUC CS B.S. '26
2022-2023	Owen Zhang, UIUC CS B.S. '23 Moved on to MS at Princeton University
2021-2022	Melissa Chen, UIUC CS B.S. '22 Moved on to PhD at Northwestern University
2020-2021	Akshaya Jagannadharao, UIUC CS B.S./M.C.S. '22 Moved on to Intel
2020	Jaewook Lee, UIUC CS B.S. '22 Moved on to PhD at University of Washington
2019	Henry Huang, UIUC CS BS '19 Moved on to MS at University of Southern California

## Service

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2021-	UIUC CS STARS (Student Ambassadors/Research Scholars), Research Mentor
2023	ACM Conference on Creativity and Cognition 2021, Student Volunteer
2020, 2022	UIUC CS Department, Graduate Student Ambassador
2017-2018	UB CSE Undergraduate Student Advisory Board, Chair
2015-2018	UB Hacking (24-hour student-run hackathon) Co-Director (2017-18), Advertising Lead (2016-17)
2017	UB CSE Kids' Day (K-12 CS annual outreach event), Lead Organizer
2015-2017	Scientista at UB (Women in CS) Co-Director (2016-2017), Publicity Chair (2015-2016)
2015-2016	Buffalo Engineering Awareness for Minorities, Web Developer/Admin