

# Wendy Shi

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## Education

### University of Illinois, Urbana-Champaign (UIUC)

Ph.D., Computer Science

Urbana, IL

Expected May 2025

- Research Topics: Human-Computer Interaction, Online Collaboration
- Advisor: Dr. Brian Bailey

### University at Buffalo, The State University of New York (UB)

B.S., Computer Science; B.A., Social Sciences Interdisciplinary, Cognitive Science Concentration

Buffalo, NY

August 2014 - May 2018

## Skills

**Research Methods:** User Interviews, Surveys and Questionnaires, Think-Aloud Protocols, Experimental Design, A/B Testing, Prototyping, Field Studies, Bayesian Analysis, Coding, Thematic Analysis

**Programming Languages:** Python, R, JavaScript (React, Node.js, D3.js), SQL, HTML, CSS, Java

**Tools:** Figma, Qualtrics, Git, NVivo, Tableau, Adobe Photoshop, Latex

## Research Interests

**My research aims to understand, design, and build 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 enhance feedback in collaborative settings. More broadly, I am interested in how the ways that we work together will shape the ways that we evaluate each other.

## Research Experience

### University of Illinois, Urbana-Champaign - Department of Computer Science

Graduate Researcher

2018 - Present

- Led human-computer interaction research projects studying how we evaluate and support teams in online collaborations.
- Prototyped tools for evaluating teamwork that leverage data from online tools while keeping humans in the loop.
- Conducted mixed-methods research such as interviews, surveys, online experiments, and field studies.
- Analyzed data using methods such as Bayesian analysis, hierarchical modeling, thematic analysis, open coding, etc.
- Supported research projects on algorithmic team formation workflows and feedback processes in creative work.

### University at Buffalo - Department of Computer Science

Undergraduate Research Assistant

2016

- Evaluated framework for estimating source reliability for peer grading data from Massive Open Online Courses.

## Publications

**Wenxuan Wendy Shi**, Sneha R. Krishna Kumaran, Hari Sundaram, Brian P. Bailey. 2023. *The Value of Activity Traces in Peer Evaluations: An Experimental Study*. Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW). **Best Paper Award** (Top 1% of submission).

**Wenxuan Wendy Shi**, Akshaya Jagannadharao, Jaewook Lee, Brian P. Bailey. 2021. *Challenges and Opportunities for Data-Centric Peer Evaluation Tools for Teamwork*. Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW).

Sneha R. Krishna Kumaran, **Wenxuan Wendy Shi**, Brian P. Bailey. 2021. *Am I Ready to Get Feedback? A Taxonomy of Factors Creators Consider Before Seeking Feedback on In-Progress Creative Work*. Proceedings of the ACM Conference on Creativity and Cognition (C&C). (Acceptance Rate: 23%.) **Honorable Mention Award**.

## Awards, Fellowships, & Grants

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ACM CSCW Best Paper Award, top 1% of submissions	2023
UIUC Engineering GATE Award (Grants for Advancement of Teaching in Engineering), \$10000	2023
ACM C&C Best Paper Honorable Mention Award,	2021
UIUC CS Outstanding Teaching Assistant Award, 1 of 8 recipients in department	2021
UIUC CS Excellence Award, 1 of 4 recipients in department	2018
UB CS Leadership Award, sole recipient in department	2018
UB Presidential Scholar, full-ride merit scholarship, 1 of 22 recipients in university.	2014-2018

## Teaching Experience

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CS465 User Interface Design, Teaching Assistant	FA21/22/23
CS565 Human-Computer Interaction, Teaching Assistant.	SP22
CS416 Data Visualization, Head Teaching Assistant.	SU19/20/21
CS598 Scientific Visualization, Teaching Assistant	FA20
CS210 Ethical and Professional Issues, Teaching Assistant	FA18-SP19

## Mentoring

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Erin Kirsten , UIUC CS B.S. '26	2022-present
Owen Zhang, UIUC CS B.S. '23, currently MS at Princeton University	2022-2023
Melissa Chen , UIUC CS B.S. '22, currently PhD at Northwestern University	2021-2022
Akshaya Jagannadharao , UIUC CS B.S./M.C.S. '21, currently at Intel	2020-2021
Jaewook Lee, UIUC CS B.S. '22, currently PhD at University of Washington	2020
Henry Huang, UIUC CS BS '19, currently MS at University of South California	2019

## Service

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