

# Wendy Shi

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## Education

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

Ph.D., Computer Science

Urbana, IL

Expected May 2025

- Research Area: Human-Computer Interaction
- 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

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**Research Methods:** User-Centered Design, Interviews, Surveys and Questionnaires, Experimental Design, Usability Testing, Prototyping, Qualitative Coding, Thematic Analysis, Bayesian Analysis

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

**Tools:** Figma, Qualtrics, NVivo, CloudResearch, Tableau, Adobe Photoshop, LaTeX, Git

## Research and Work Experience

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

Graduate Researcher

2018 - Present

- Lead multiple collaborative human-computer interaction research projects end-to-end, including defining long-term and short-term research goals, planning studies, analyzing data, and synthesizing findings into research reports. My dissertation (to be completed Spring 2025) specifically investigates how we can extract and promote collaborative behaviors using log data from digital tools.
- Contributed to research projects that studied algorithmic team formation workflows for design teams in classrooms and feedback processes in creative work.
- Prototype, build, and test systems following a user-centered design process, including a data-augmented peer evaluation interface for assessing teamwork that will be deployed in large-scale classrooms. (Figma | Python | JavaScript | HTML/CSS | SQL)
- Conduct mixed-methods research such as in-depth interviews, online surveys, needfinding, literature review, controlled experiment design, and classroom field studies. (Qualtrics | MTurk)
- Analyze quantitative and qualitative data using methods such as Bayesian analysis, hierarchical modeling, thematic analysis, open coding, etc. (Python | R | NVivo)
- Developed multiple peer-reviewed publications, successful grant proposals, and short-term and long-term project plans to communicate research findings and ideas to diverse audiences.

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

Graduate Teaching Assistant

2016

- Developed course materials and taught studio sessions for courses such as User Interface Design (3 semesters), Data Visualization (3 semesters), Human-Computer Interaction, Social Visualization, and Scientific Visualization.

## 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

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### PEER REVIEWED 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 submissions).

**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**.

### WORKSHOP PAPER

**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.

## Awards, Fellowships, & Grants

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UIUC Strategic Instructional Innovations Program Grant, \$33,975	2024
ACM CSCW Best Paper Award, top 1% of submissions	2023
UIUC Engineering GATE Award (Grants for Advancement of Teaching in Engineering), \$10,000	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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CS467 Social Visualization, Teaching Assistant	SP24
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
CS519 Scientific Visualization, Teaching Assistant	FA20
CS210 Ethical and Professional Issues, Teaching Assistant	FA18-SP19

## Mentoring

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<b>Rohan Kumar</b> , UIUC CS B.S. '27	2023-
<b>Linna Niu</b> , UIUC CS B.S. '26	2023-
<b>Erin Kirsten</b> , UIUC CS B.S. '26	2022-
<b>Owen Zhang</b> , UIUC CS B.S. '23, currently MS at Princeton University	2022-2023
<b>Melissa Chen</b> , UIUC CS B.S. '22, currently PhD at Northwestern University	2021-2022
<b>Akshaya Jagannadharao</b> , UIUC CS B.S./M.C.S. '21, currently at Intel	2020-2021
<b>Jaewook Lee</b> , UIUC CS B.S. '22, currently PhD at University of Washington	2020
<b>Henry Huang</b> , UIUC CS BS '19, currently MS at University of Southern California	2019

## Service

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