Wendy Shi

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Education

University of Illinois, Urbana-Champaign (UIUC) — Urbana, IL
Ph.D., Computer Science — Expected May 2025
- Proposed Thesis: Augmenting Evaluations of Teamwork Using Cross-Tool Log Data
- Advisor: Dr. Brian Bailey

University at Buffalo, The State University of New York (UB) — Buffalo, NY
B.S., Computer Science; B.A., Social Sciences Interdisciplinary, Cognitive Science Concentration — August 2014 - May 2018

Publications

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.

Research Experience

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 publications. My dissertation (to be completed Spring 2025) investigates how we can extract and promote collaborative behaviors using log data from digital tools.
- Prototype, build, and test interactive systems following a user-centered design process, including a data-augmented peer evaluation interface that extracts and visualizes cross-tool log data to perform evaluations in teams.
- Developed multiple interview and survey protocols, conducted one-on-one interviews with 40+ stakeholders for needfinding and usability testing, and analyzed data from Qualtrics survey with 200+ participants.
- Conducted online A/B experiment with 100+ participants through Qualtrics, Google Doc, and MTurk and analyzed data using quantitative and qualitative methods including Bayesian hierarchical modeling and thematic analysis.

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.

Teaching Experience

UIUC: Department of Computer Science

Graduate Teaching Assistant   2018-2024
- Served as a teaching assistant for computer science courses at multiple levels, including introductory courses, project-based courses, and upper-level electives. Also taught courses that were fully online, hybrid, and in-person.
- Led design studios and discussion sections of 20-30 students where I taught and practiced course concepts, facilitated group activities, and managed presentations. (User Interface Design, Ethical and Professional Issues, Discrete Structures)
- Managed team-based learning in multiple courses (User Interface Design, Social Visualization, Human-Computer Interaction) where I mentored, graded, and provided feedback to student teams. I also administered peer evaluations and team formation in two of these courses, including developing a peer evaluation tool and workflow to administer to 180+ students.
- Manage online courses of 600+ students. After serving as a TA for Data Visualization for two terms, I became head TA in my last term and oversaw a staff of six graduate teaching assistants.
- Developed course materials, including programming assignments and graders (Data Visualization, Scientific Visualization), full exams (User Interface Design), lecture materials (Social Visualization, User Interface Design), and team assessments (User Interface Design, Human-Computer Interaction).

UB: Department of Computer Science and Engineering

Undergraduate Teaching Assistant   Fall 2017
- Taught weekly discussion sections for a freshman seminar on fundamentals of the internet, from infrastructure to web design.

Courses Taught

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
CS173 Discrete Structures, Teaching Assistant	SP20
CS210 Ethical and Professional Issues, Teaching Assistant	FA18-SP19

Mentoring

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

Awards, Fellowships, & Grants

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	SP21
UIUC List of Teachers Ranked as Excellent By Their Students, based on end-of-the-semester student evaluation scores; teaching effectiveness rating > 4.5/5	FA18/SP19/FA21
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

Service

UIUC CS STARS (Student Ambassadors/Research Scholars) Program, Research Mentor	2021-
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