

Qiaosi Wang

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Research Interests: human-centered AI, human-AI interaction, responsible AI, conversational agent, socially intelligent AI, Theory of Mind theory

EDUCATION

- Aug 2018 : Georgia Institute of Technology | Atlanta, GA
Present : Ph.D. candidate in Human-Centered Computing (specialization: Cognitive Science)
Advisor: Dr. Ashok K. Goel
PhD Dissertation: Mutual Theory of Mind for Human-AI Communication in AI-Mediated Social Interaction
- Aug 2013 : University of Washington | Seattle, WA
June 2018 : B.S. in Informatics and Psychology
GPA: 3.76/4.0 (Cum Laude - Top 20% in Class)

HONORS & AWARDS

- Nov 2021 : Georgia Tech GVU Center 2021 Foley Scholar Award Winner (\$5000 reward)
Aug 2021 : Georgia Tech GVU Center 2021 Foley Scholar Award Finalist
Aug 2020 : Best Student Paper Award at Learning@Scale '20
Feb 2020 : Semifinalist in IBM AI Prize Competition - emPrize Team
Jun 2019 : Best Paper Award at DIS'19
Jun 2018 : University of Washington Dean's List (10 quarters)
Sep 2016 : Psi Chi - International Psychology Honor Society

PUBLICATIONS & PRESENTATIONS

- Referred : Qiaosi Wang, Ida Camacho, Shan Jing, and Ashok K. Goel. 2022. Understanding the
Journal : Design Space of AI- Mediated Social Interaction in Online Learning: Challenges and
Articles : Opportunities. Proc. ACM Hum.-Comput. Interact. 6, CSCW1, Article 130 (April 2022),
26 pages. <https://doi.org/10.1145/3512977>

Betsy DiSalvo, Dheeraj Bandaru, **Qiaosi Wang**, Hong Li, and Thomas Plötz. 2022. Reading the Room – Automated, Momentary Assessment of Student Engagement in the Classroom: Are We There Yet?. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 6, 3, Article 112 (September 2022), 26 pages. <https://doi.org/10.1145/3550328>

Chia-Fang Chung, **Qiaosi Wang**, Jessica Schroeder, Allison Cole, Jasmine Zia, James Fogarty, and Sean A. Munson. 2019. Identifying and Planning for Individualized Change: Patient Provider Collaboration Using Lightweight Food Diaries in Healthy Eating and Irritable Bowel Syndrome. PACM Interact. Mob. Wearable Ubiquitous Technol. 3, 1, Article 7 (March 2019), 23 pages. <https://doi.org/10.1145/3314394>

Invited Book Chapter : **Qiaosi Wang**, Ida Camacho, Ashok K. Goel. 2022. Investigating the Potential of AI-based Social Matching Systems to Facilitate Social Interaction Among Online Learner. Social and Emotional Learning and Complex Skills Assessment. Springer, Cham, 2022. Page 279-298.

Referred Conference Proceedings : **Qiaosi Wang**, Michael Madaio, Shaun Kane, Shivani Kapania, Michael Terry, Lauren Wilcox. 2023. Designing Responsible AI: Adaptations of UX Practice to Meet Responsible AI Challenges. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI' 23). ACM, Hamburg, Germany. (Acceptance rate: 28.39%)

One of the five papers selected as CHI'2023 Editor's Choice on Human-Centered AI

Qiaosi Wang, Shan Jing, Ashok K. Goel. 2022. Co-Designing AI Agents to Support Social Connectedness Among Online Learners: Functionalities, Social Characteristics, and Ethical Challenges. In Designing Interactive Systems Conference (DIS'22). ACM, Virtual Event, USA. <https://doi.org/10.1145/3532106.3533534> (Acceptance rate: 21.5%)

Qiaosi Wang, Koustuv Saha, Eric Gregori, David A. Joyner, and Ashok K. Goel. 2021. Towards Mutual Theory of Mind in Human-AI Interaction: How Language Reflects What Students Perceive About a Virtual Teaching Assistant. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21). ACM, Virtual Event, USA. <https://doi.org/10.1145/3411764.3445645> (Acceptance rate: 26.3%)

Qiaosi Wang, Shan Jing, David A. Joyner, Lauren Wilcox, Hong Li, Thomas Plötz, Betsy DiSalvo. 2020. Sensing Affect to Empower Students: Learner Perspectives on Affect-Sensitive Technology in Large Educational Contexts. In Proceedings of the ACM Conference on Learning at Scale 2020 (L@S '20). ACM, Virtual Event, USA. <http://dx.doi.org/10.1145/10.1145/3386527.3405917> (Acceptance rate: 25%)

Best Student Paper Award

David A. Joyner, **Qiaosi Wang**, Suyash Thakare, Shan Jing, Ashok K. Goel, Blair MacIntyre. 2020. The Synchronicity Paradox in Online Education. In Proceedings of the ACM Conferences on Learning at Scale 2020 (L@S '20). ACM, Virtual Event, USA. <https://doi.org/10.1145/3386527.3405922> (Acceptance rate: 25%)

Lauren Wilcox, Betsy DiSalvo, Dick Henneman, Qiaosi Wang. 2019. Design in the HCI Classroom: Setting a Research Agenda. In Designing Interactive Systems Conference (DIS'19). ACM, San Diego, CA, USA. <https://doi.org/10.1145/3322276.3322381> (Acceptance rate: 25%)

Best Paper Award

Abstracts & Extended Abstracts : **Qiaosi Wang**, Shan Jing, Ida Camacho, Ashok K. Goel. 2020. Jill Watson SA: Design and Evaluation of a Virtual Agent to Build Communities Among Online Learners. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA'20). ACM, Honolulu, HI, USA. <http://dx.doi.org/10.1145/3334480.3382878>. (Acceptance rate: 41.8%)

Workshop Papers : **Qiaosi Wang**, Ashok K. Goel. 2022. Mutual Theory of Mind for Human-AI Communication. Presented at CHAI@IJCAI: Communications in Human-AI Interaction Workshop at the 2022 International Joint Conferences on Artificial Intelligence (IJCAI).

Qiaosi Wang, Ida Camacho, Ashok K. Goel. 2020. Designing for Agent-Mediated Online Social Connections: Lessons Learned and Potential Challenges. Presented at CUI@CSCW: Collaborating Through Conversational User Interfaces Workshop at the 2020 ACM Computer-Supported Cooperative Work and Social Computing (CSCW) Virtual Conference.

RESEARCH EXPERIENCE

Aug 2018 : **Graduate Research Assistant. School of Interactive Computing, Georgia Tech.**

Present : Advised by Dr. Ashok Goel as a PhD student in Human-Centered Computing. My specialization is cognitive science. I am broadly interested in human-AI interaction, human-centered and responsible AI, and conversational agents. More specifically, my research focuses on leveraging cognitive science theory to design shared mutual understanding between humans and AI systems. I leverage both qualitative and quantitative methods in my research and the methods I commonly use are semi-structured interviews, survey, co-design, natural language processing, etc.

May 2022 : **Research Intern. Google Research, People+AI Research (PAIR) team.**

Aug 2022 : **Mentors:** Dr. Lauren Wilcox and Dr. Michael Terry
Conducted semi-structured interviews with 15 UX practitioners and 8 Responsible AI Experts to understand how current industry UX practices are adapting to meet responsible AI challenges. This work was published as a full paper at CHI'2023.

May 2021 : **Research Intern. IBM Research, Almaden Lab.**

Aug 2021 : **Mentors:** Eric Liu, Dr. Robert Moore, and Dr. Guang-Jie Ren
Conducted qualitative research to explore opportunities in augmenting B2B practices. Findings from this internship project has influenced the team's direction in building and designing human-centered AI technologies.

Jun 2017 : Undergraduate Research Assistant. HCDE, University of Washington.
 Dec 2017 : Advised by Dr. Sean Munson and Dr. Julie Kientz. I assisted in several HCI research projects. In one project I explored the effectiveness of electronic photo-based food diary in supporting patient-provider collaboration among patients with Irritable Bowel Syndrome (IBS) through semi-structured interviews. In another project I worked on designing user value scale to measure users' perceived value in computing technologies through survey and semi-structured interviews.

TEACHING EXPERIENCE

Spring : Graduate Teaching Assistant, Georgia Institute of Technology
 2022 : OMSCS - CS6795 Introduction to Cognitive Science (Dr. Ashok Goel)
 Overall effectiveness: 4.9/5.0

Spring : Online Course Development Teaching Assistant, Georgia Institute of Technology
 2021 : OMSCS - CS6795 Introduction to Cognitive Science (Dr. Ashok Goel)

Summer : Graduate Teaching Assistant, Georgia Institute of Technology
 2020 : CS6795 Introduction to Cognitive Science (Dr. Michael Helms)
 Overall effectiveness: 4.8/5.0

Summer : Graduate Teaching Assistant, Georgia Institute of Technology
 2019 : CS6795 Introduction to Cognitive Science (Dr. Ashok Goel)
 Overall effectiveness: 4.8/5.0

COMMUNITY SERVICES

Peer-review : Conferences: CHI (2019, 2020, 2021, 2022, 2023***), CSCW (2021*, 2022, 2023), DIS (2019, 2022), CogSci (2020) **Recognition for Outstanding Review*
 Journals: ACM Transactions on Interactive Intelligent Systems (TiiS), International Journal of Human-Computer Studies (IJCHS), IEEE Pervasive Computing

Volunteer : Student volunteer: DIS 2019, CSCW 2020 (virtual), CHI 2021 (virtual)

Georgia : Facilitator for HCC Program PhD Seminar, Fall 2020
 Tech : Lab Manager, Design & Intelligence Lab

UW : Undergraduate Research Leader, Undergraduate Research Program
 Event Coordinator, UW Psi Chi Honor Society
 Student Mentor, International Student Mentorship Program
 Facilitator, Foundation of International Understanding Through Students (FIUTS)

INVITED TALKS AND PANELS

- June 2023 : **Mental Models in Human-AI Interaction**
Organizer and Presenter, Online Symposium, Collaboration with researchers from Georgia Tech, RPI, IBM Research
- March 2023 : **Designing Responsible AI: Adaptations of UX Practice to Meet Responsible AI Challenges**
Invited guest lecture at University of California, Berkeley
- Nov 2022 : **Mutual Theory of Mind for Human-AI Communication**
Invited talk at University of Manchester
- April 2022 : **Mutual Theory of Mind for Human-AI Communication**
Presenter, GVU Foley Scholar Award Winners Brown Bag Talk, Georgia Tech
- July 2021 : **How Will AI Transform Teaching and Learning?**
Panelist, The Chronicle of Higher Education

SKILLS

- Design : prototyping, wireframing, sketching, storyboarding, participatory design
- Research : interview, survey, affinity diagram, open coding, contextual inquiry, observational study, A/B test, usability testing, statistical analysis (inferential and descriptive), hypothesis testing, experiment design
- Programming : Java, Python, R, HTML, CSS, JavaScript, Swift, SQL
- Tools : Adobe Illustrator, Adobe XD, Adobe Lightroom, Figma, InVision, SPSS, RStudio, Qualtrics, SurveyGizmo

PRESS COVERAGE

- June 2022 : **Ethno-Data Blog.** *Conversing with AI: Interview with Chelsea Wang about Communications with Artificial Intelligence Systems.* [\[Link\]](#)
- June 2021 : **EdTech Higher Education Magazine.** *Q&A: Georgia Tech Researcher Discusses How AI can Improve Student Success.* [\[Link\]](#)
- May 2021 : **Georgia Tech News.** *New Language Model Uses Texts to Predict How Groups of People Perceive AI Agents.* [\[Link\]](#)