

# 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 : Betsy DiSalvo, Dheeraj Bandaru, **Qiaosi Wang**, Hong Li, and Thomas Plötz. 2022.  
Journal : Reading the Room – Automated, Momentary Assessment of Student Engagement in  
Articles : 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>

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

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. To appear in CHI Conference on Human Factors in Computing Systems (CHI' 23). ACM, Hamburg, Germany. (Acceptance rate: 28.39%)

**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 *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 & : **Qiaosi Wang**, Shan Jing, Ida Camacho, Ashok K. Goel. 2020. Jill Watson SA: Design and  
Extended : Evaluation of a Virtual Agent to Build Communities Among Online Learners. In  
Abstracts : 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 : **Qiaosi Wang**, Ashok K. Goel. 2022. Mutual Theory of Mind for Human-AI  
Papers : 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), 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

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, Sigma, InVision, SPSS, RStudio, Qualtrics, SurveyGizmo

## PRESS COVERAGE

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.* [\[Link\]](#)