

Qiaosi (Chelsea) Wang Ph.D.

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EDUCATION

- 2018-2024 **Georgia Institute of Technology** Atlanta, GA
Ph.D. in Human-Centered Computing (specialization: Cognitive Science)
Advisor: Ashok K. Goel
Committee: Munmun De Choudhury, Betsy Disalvo, Q. Vera Liao, Lauren Wilcox
Thesis: Mutual Theory of Mind for Human-AI Communication in AI-Mediated Social Interaction
- 2013-2018 **University of Washington, Seattle** Seattle, WA
B.S. in Informatics and Psychology - Cum Laude, Top 20% in Class

EXPERIENCE

- OCT 2024 -
PRESENT **Carnegie Bosch Postdoc Fellow** | HCII, School of CS, Carnegie Mellon University
Mentors: Jodi Forlizzi, Hong Shen
Leading research efforts on co-designing Theory-of-Mind-enabled everyday AI products and services with industry AI practitioners and designing user-centered Theory of Mind benchmarks for Large Language Models. Leading grant proposal writing on Mutual Theory of Mind in human-AI interaction and mentoring Ph.D. students on their respective projects.
- MAY 2022 -
AUG 2022 **Research Intern** | People+AI Research (PAIR), Google Research
Mentors: Lauren Wilcox, Michael Terry
Researched how industry UX practices are adapting to meet responsible AI challenges under the context of large language models and generative AI through semi-structured interviews. Work published as a full paper at CHI'2023.
- MAY 2021 -
AUG 2021 **Research Intern** | IBM Research, Almaden
Mentors: Robert Moore, Guang-Jie Ren
Led and conducted qualitative studies to examine opportunities in augmenting B2B practices. Findings influenced the team's direction in building and designing human-centered AI technology in B2B context.
- AUG 2018 -
SEP 2024 **Graduate Research Assistant** | School of Interactive Computing, Georgia Tech
Advisor: Ashok K. Goel
Proposed and empirically examined the theoretical framework of Mutual Theory of Mind in human-AI communication in online higher education. Conducted empirical studies to understand the design and effect of AI agents assuming social roles such as teaching assistants and social facilitators among online students.
- JUN 2017 -
DEC 2017 **Undergraduate Research Assistant** | HCDE, University of Washington Seattle
Mentors: Christina Chung, Sean Munson, Julie Kientz
Participated in two HCI projects led by Ph.D. students. One project examined the patient-provider collaboration among patients with Irritable Bowel Syndrome (IBS) and another project studied the design of user value scale in computing technologies. Assisted the lead Ph.D. student in interview data collection and paper-writing.

PUBLICATIONS

REFERRED
JOURNAL
ARTICLES

- [J1] **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>
- [J2] 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>
- [J3] 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

- [B1] Sarah E. Walsh, **Qiaosi Wang***, Lance Ying*. 2025. Theory of Mind in Human-AI Interaction. *Handbook of Human-Centered Artificial Intelligence*. Springer, 2025. To Appear. *Equal contribution.
- [B2] **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
1

- [C1] **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. <https://doi.org/10.1145/3544548.3581278> (Acceptance rate: 28.39%)
One of the five papers selected as CHI'2023 Editor's Choice on Human-Centered AI
- [C2] **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%)
- [C3] **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%)
- [C4] **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
- [C5] 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%)
- [C6] 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

¹Note: Peer-reviewed conferences are top-tier publication venues in human-computer interaction and computer science. They are heavily reviewed, highly selective and intended for archival papers only.

ABSTRACT &
EXTENDED
ABSTRACTS

- [A1] **Qiaosi Wang**, Joel Wester, Marvin Pafla, Minha Lee, Justin D. Weisz, and Mei Si. 2025. ToMinHAI at CUI'2025: Theory of Mind in Human-CUI Interaction. In Proceedings of the 7th ACM Conference on Conversational User Interfaces (CUI '25). ACM, Waterloo, Ontario, Canada. <https://doi.org/10.1145/3719160.3728627>
- [A2] **Qiaosi Wang**, Sarah E. Walsh, Mei Si, Jeffrey O. Kephart, Justin D. Weisz, Ashok K. Goel. 2024. Theory of Mind in Human-AI Interaction. In Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (CHI EA'24). ACM, Honolulu, HI, USA. <https://doi.org/10.1145/3613905.3636308> (Acceptance rate: 49%)
- [A3] **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

- [W1] **Qiaosi Wang**, Xuhui Zhou, Maarten Sap, Jodi Forlizzi, Hong Shen. 2025. Rethinking Theory of Mind Benchmarks for LLMs: Towards A User-Centered Perspective. Accepted and Presented at the Theory of Mind Workshop at IJCAI 2025, Human-centered Evaluation and Auditing of Language Models Workshop at ACM CHI 2025 (HEAL@CHI). <https://arxiv.org/abs/2504.10839>
- [W2] **Qiaosi Wang**, Ashok K. Goel. 2022. Mutual Theory of Mind for Human-AI Communication. Accepted and Presented at CHAI@IJCAI: Communications in Human-AI Interaction Workshop at the 2022 International Joint Conferences on Artificial Intelligence (IJCAI). <https://arxiv.org/pdf/2210.03842.pdf>
- [W3] **Qiaosi Wang**, Ida Camacho, Ashok K. Goel. 2020. Designing for Agent-Mediated Online Social Connections: Lessons Learned and Potential Challenges. Accepted and Presented at CUI@CSCW: Collaborating Through Conversational User Interfaces Workshop at the 2020 ACM Computer-Supported Cooperative Work and Social Computing (CSCW) Virtual Conference.

TALKS & PANELS

OCT 2025	Theory of Mind for Socially Aligned Human-AI Interactions Invited Guest Lecture at Human-Centered NLP class, Carnegie Mellon University
FEB 2025	AI and Ethics: The Black Mirror Writer's Room Guest Lecture at AI for Social Good class, Carnegie Mellon University
JUN 2023	Mental Models in Human-AI Interaction Organizer and Presenter, Online Symposium, with Georgia Tech, RPI, IBM Research
MAR 2023	Designing Responsible AI: Adaptations of UX Practice to Meet Responsible AI Challenges Invited Guest Lecture at Human-Centered AI class, University of California, Berkeley
NOV 2022	Mutual Theory of Mind for Human-AI Communication Invited talk at University of Manchester
NOV 2022	Mutual Theory of Mind for Human-AI Communication Presenter, GVU Foley Scholar Award Winners Brown Bag Talk, Georgia Tech
NOV 2022	How Will AI Transform Teaching and Learning? Panelist, The Chronicle of Higher Education

TEACHING EXPERIENCE

SPRING 2022	Graduate Teaching Assistant, Georgia Institute of Technology OMSCS - CS6795 Introduction to Cognitive Science (with Ashok K. Goel) Overall effectiveness: 4.9/5.0
SPRING 2021	Online Course Development Teaching Assistant, Georgia Institute of Technology OMSCS - CS6795 Introduction to Cognitive Science (with Ashok K. Goel)
SUMMER 2020	Graduate Teaching Assistant, Georgia Institute of Technology CS6795 Introduction to Cognitive Science (with Michael Helms) Overall effectiveness: 4.8/5.0
SUMMER 2019	Graduate Teaching Assistant, Georgia Institute of Technology CS6795 Introduction to Cognitive Science (with Michael Helms) Overall effectiveness: 4.8/5.0

HONORS & AWARDS

OCT 2024	Carnegie Bosch Postdoctoral Fellowship (\$12k annual research funding)
NOV 2021	Georgia Tech 2021 Foley Scholar Award Winner (\$5000 reward) <i>Highest award for student excellence in research contributions to computing</i>
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)

Academic Services

ORGANIZING COMMITTEE	Workshop on Theory of Mind in Human-AI Interaction (ToMinHAI) at ACM CHI 2023, ACM CUI 2025
PROGRAM COMMITTEE	Conferences: FAccT 2024, CHI 2025*, DIS 2025 Workshops: GenAI and ToM in Communicating Agent Workshop @ IJCAI 2025, Bi-Align Workshop at ICLR 2025
PEER-REVIEW	Conferences: CHI (2019, 2020, 2021, 2022, 2023***, 2024*, 2026*), ICSR (2024), CSCW (2021*, 2022, 2023, 2025*), DIS (2019, 2022), CogSci (2020) <i>*Outstanding Review</i> Journals: ACM Transactions on Interactive Intelligent Systems (TiiS), International Journal of Human-Computer Studies (IJCHS), International Journal of Human-Computer Interaction (IJHCI), ACM Transactions on Computer-Human Interaction (TOCHI)
MENTORING	Ph.D. Students Jini Kim (CMU, advised by Jodi Forlizzi and Hong Shen), Ningjing Tang (CMU, advised by Hong Shen and Hoda Heidari), Katelyn Morrison (CMU, advised by Adam Perer), Lingqing Wang (Georgia Tech, advised by Ashok K. Goel) Master and Undergrad Students Avanita Sharma (CMU), Jessica Lin (CMU), Yiqing Zhou (TU-Delft), Carlos Rafael Catalan (Georgia Tech), Chidimma Anyi (Georgia Tech), Shan Jing (Georgia Tech), Jingying Zeng (Georgia Tech)

VOLUNTEER **Student Volunteer** DIS 2019, CSCW 2020 (virtual), CHI 2021 (virtual)
Facilitator for HCC Program PhD Seminar, Fall 2020, Georgia Tech
Undergraduate Research Leader, Undergraduate Research Program, UW

SKILLS

DESIGN	co-design, prototyping, wireframing, sketching, storyboarding
RESEARCH METHODS	interview, survey, affinity diagram, open coding, reflexive thematic analysis, contextual inquiry, observational study, usability testing, statistical analysis (inferential and descriptive), hypothesis testing, experiment design, statistical modeling.
PROGRAM- MING	Python, R, Java, HTML, CSS

PRESS COVERAGE

JAN 2025	Meet CBI fellow Chelsea Wang. <i>Carnegie Bosch Institute News</i> (Link).
JUN 2022	Conversing with AI: Interview with Chelsea Wang about Communications with Artificial Intelligence Systems. <i>Ethno-Data Blog</i> (Link).
JUN 2021	Q&A: Georgia Tech Researcher Discusses How AI can Improve Student Success. <i>EdTech Higher Education Magazine</i> (Link).
MAY 2021	New Language Model Uses Texts to Predict How Groups of People Perceive AI Agents. <i>Georgia Tech News</i> (Link).