

Qiaosi Wang

✉ qswang@gatech.edu

☎ 1-206-495-5129

📅 <http://qiaosiwang.me>

EDUCATION

Aug 2018 | **Georgia Institute of Technology | Atlanta, GA**

Present

Ph.D. student in Human Centered Computing

Specialization: Cognitive Science

Advisor: Dr. Ashok Goel

GPA: 4.0/4.0

Aug 2013 | **University of Washington | Seattle, WA**

June 2018

B.S. in Informatics and Psychology

GPA: 3.76/4.0 (Cum Laude - Top 10% in Class)

HONORS & AWARDS

June 2019 | Best Paper Award (Top 1% of papers) at DIS '19

June 2018 | University of Washington Dean's List (10 quarters)

April 2017 | "Most Social Impact" award from Sustainability Hackathon

Sept 2016 | Psi Chi - International Psychology Honor Society

RESEARCH EXPERIENCE (selected)

July 2019 | **Graduate Research Assistant | Atlanta, GA**

Present

School of Interactive Computing, Georgia Institute of Technology

Subject Matter: Designing and evaluating AI agent for community building in online education

Collaborators: Ashok Goel, David Joyner, Ida Camacho

We are designing and developing an AI agent to help online learners build communities and social connections. We are interested in whether the community-building AI agent can help improve students' feeling of social presence. I conducted literature review on community building in online learning, situated learning, social cognitive theories; Designing quasi experiment to evaluate community-building agent; Conducting semi-structured interviews to understand online learners' social context of learning current community-building practices.

Mar 2018 | **Graduate Research Assistant | Atlanta, GA**

Present

School of Interactive Computing, Georgia Institute of Technology

Subject Matter: Exploring the feasibility of measuring human perceptions and attitudes towards virtual agents through conversational cues

Collaborators: Ashok Goel, David Joyner, Marissa Gonzales

We are exploring the feasibility of measuring human perception and attitudes of the agent through analyzing the conversations between human and virtual agent. The goal is to design conversational agent that can detect and adjust to user perception and attitudes towards the agent. I conducted literature review on human-AI interaction and technology perceptions; Composed IRB protocol; Designed bi-weekly surveys to measure students' perception about the agent to provide ground truth data; Conducted quantitative statistical analysis to infer changes in students' perception and conversations with the agent; Analyzing conversations between student and virtual agent using NLP techniques such as sentiment analysis, word embeddings (word2vec)

Aug 2018 : Graduate Research Assistant | Atlanta, GA

Sep 2019 : School of Interactive Computing, Georgia Institute of Technology

Subject Matter: Leveraging behavioral and physiological feedback in the design of affect-sensitive distance learning

Collaborators: Betsy Disalvo, Lauren Wilcox, Thomas Ploetz, David Joyner, Hong Li

Worked on exploring the feasibility of leveraging wearable technology and other types of sensing data to gather more context about online learners. Specifically, I am interested in the design of affect-sensitive wearables and the ethical and privacy issues with student affect data use in educational settings.- Composed IRB protocols and led study design; Designed and conducted in-class observational study to provide ground truth for affect data analysis; Conducted 11 semi-structured interviews with students to understand their attitudes on the use of wearable devices in educational settings; Conducted open-coding on interview data; Designed survey to understand online students' attitudes and opinions about the design of wearables and emotion data use

Jan 2018 : Undergraduate Research Assistant | Seattle, WA

Mar 2018 : Information School, University of Washington

Subject Matter: NatureCollections: Can a mobile app connect kids with nature?

Collaborators: Katie Davis, Saba Kawas

Worked on evaluating the effectiveness of a mobile application in connecting kids with nature. I brainstormed study procedures and *designed interview protocol*; Led several *observational study* sessions, conducted *focus groups, surveys, and contextual inquiry* to gain kids' opinion on the mobile application; Cleaned and analyzed video data using *interaction analysis*.

Aug 2017 : Undergraduate Research Assistant | Seattle, WA

Dec 2017 : Department of Human-Centered Design & Engineering, University of Washington

Subject Matter: Leveraging personal informatics data to support people's healthy eating goal

Collaborators: Sean Munson, Chia-Fang Chung

Worked on exploring the effectiveness of electronic photo-based food diary in supporting people's various healthy eating goals. Generated paper prototypes by sketching out design ideas for systems to track and display people's food intake; Designed and composed the prototype instruction; Composed screening survey on SurveyGizmo; Scheduled participant and health experts interviews; Analyzed data using *affinity diagram*; Conducted literature review.

Jun 2017 : Undergraduate Research Assistant | Seattle, WA

Sep 2017 : Department of Human-Centered Design & Engineering, University of Washington

Subject Matter: Supporting patient-provider collaboration around personal informatics data

Collaborators: Sean Munson, Chia-Fang Chung

Worked on exploring the effectiveness of electronic photo-based food diary in supporting patient-provider collaboration. Leveraged the photo-based food journal prototype to understand patient and provider needs; *Scheduled and conducted interviews* with 17 patient-provider pairs; Analyzed interview data using *affinity diagram*; Conducted literature review

Jun 2017 : Undergraduate Research Assistant | Seattle, WA

Sep 2017 : Department of Human-Centered Design & Engineering, University of Washington

Subject Matter: Developing a validated measure of user value in computing system

Collaborators: Julie Kientz, Hyewon Suh

Worked on designing a user value scale to measure users' perceived value in computing technologies, and how it affect users choices of technology adoption; Brainstormed and defined initial user values through *affinity diagram*; Designed *interview* protocols and *survey* questions; Participated in *participant recruitment*; Conducted *literature review* and *pilot interviews*; Familiarized with *Amazon Mechanical Turk(AMT)* and helped distribute surveys

PUBLICATIONS

Referred Conference Proceedings : Lauren Wilcox, Betsy DiSalvo, Dick Henneman, and **Qiaosi Wang**. 2019. Design in the HCI Classroom: Setting a Research Agenda. In Proceedings of the 2019 on Designing Interactive Systems Conference (DIS '19). ACM, New York, NY, USA, 871-883. DOI: <https://doi.org/10.1145/3322276.3322381> (Acceptance rate: 25%)
Best Paper Award (Top 1% of papers)

Referred Journal Articles : 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>

Others : Sean A. Munson, Chia-Fang Chung, Julie Kientz, James Fogarty, Jasmine Zia, Allison Cole, Jessica Schroeder, Ravi Karkar, **Qiaosi Wang**, Roger Vilardaga. (2017). Mobile Apps for Generating and Sharing Food-Related Data. Collaborative Healthcare Using Patient-Generated Data. R.Reos Partners, Robert Wood Johnson Foundation. December 2017. Retrieved from: <https://reospartners.com/projects/collaborative-healthcare-using-patient-generated-data/>

TALKS & PRESENTATIONS

May 2018 : “Novel Photo-Based Food Diaries to Support Patient-Provider Collaboration”.
Oral Presentation
21st Annual Undergraduate Research Symposium, University of Washington.

Feb 2018 : “Foodprint: Supporting Better Food-related Data Generation & Sharing”.
Poster presentation
2018 HCDE Research Showcase, University of Washington.

May 2016 : “Tonic Immobility and Maladaptive Cognitions as Predictors of Sexual Revictimization among College Women”. *Poster presentation*.
19th Annual Undergraduate Research Symposium, University of Washington.

TEACHING EXPERIENCE

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

COMMUNITY SERVICES

Peer-review : DIS: 2019 -
CHI: 2019 -

Volunteer : Student volunteer: DIS 2019

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)

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, hypothesis testing, experiment design, Natural Language Processing (NLP)

Programming : Java, Python, R, HTML, CSS, JavaScript, Swift, SQL

Tools : Adobe Illustrator, Adobe XD, Adobe Lightroom, Figma, InVision, SPSS, RStudio, Qualtrics, SurveyGizmo