

Qiaosi Wang

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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)

Mar 2018 | **Graduate Research Assistant** | Atlanta, GA
Present | School of Interactive Computing, Georgia Institute of Technology
Subject Matter: Exploring longitudinal changes in students' mental model about virtual teaching assistant
Collaborators: Ashok Goel, David Joyner, Marissa Gonzales

We are exploring the longitudinal changes in students' perceptions about a virtual teaching assistant (VTA) operating on Piazza forum answering students' questions about the class. We are also interested in drawing a correlation between students' mental model and their interaction pattern with the VTA on Piazza forum. 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 on Canvas; Conducted statistical analysis to infer changes of students' perception about VTA; Conducted qualitative coding to infer students' mental model about VTA

Aug 2018 | **Graduate Research Assistant** | Atlanta, GA
Present | School of Interactive Computing, Georgia Institute of Technology
Subject Matter: Leveraging behavioral and physiological feedback in the design of affect-sensitive distance learning
Collaborators: Lauren Wilcox, Betsy Disalvo, Thomas Ploetz, Hong Li

We are working 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 in education settings as well as the ethical and privacy issues with wearable data use. I designed *interview* protocol and *Ecological Momentary Assessment (EMA) surveys*; Conducted *survey testing* on Qualtrics and *recruitment* in pilot study; Composed IRB protocols; Designed and conducted in-class observational study; Interviewed 11 participants about use of wearable device in educational settings; Conducted open-coding with interview data; Designed survey to understand 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

We worked on evaluating the effectiveness of a mobile application in connecting kids to 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
Dec 2017

Undergraduate Research Assistant | Seattle, WA

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 use instruction; Composed screening survey on SurveyGizmo; Scheduled participant and health experts interviews; Analyzed data using *qualitative methods* such as *affinity diagram*; Conducted literature review.

Jun 2017
Sep 2017

Undergraduate Research Assistant | Seattle, WA

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 as a *technology probe* to understand patient and provider needs; *Scheduled and conducted interviews* with 17 patient-provider pairs; Analyzed data using *qualitative methods* such as *affinity diagram*; Conducted literature review; Composed a project write-up and participated in the paper-writing process.

Jun 2017
Sep 2017

Undergraduate Research Assistant | Seattle, WA

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 myself with *Amazon Mechanical Turk(AMT)* and help distributed 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)

COMMUNITY SERVICES

Peer-review : DIS: 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

Research - interview, survey, affinity diagram, interaction analysis, contextual inquiry, observational study, A/B test, usability test, statistical analysis, 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