

# JIAWEI ZHOU

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**RESEARCH INTEREST:** I conduct theory-guided mix-method studies to understand the role of technology in addressing or exacerbating problems in social interactions and health and well-being. Combining theoretical power and machine learning, statistical analyses, and natural language processing methods, I aspire to respond to real-world challenges, such as misinformation and hate speech, (mis)use of generative AI, social support strategies, and healthcare equity.

**AREAS:** social computing, misinformation | generative AI, human-AI interaction, responsible AI | health informatics, computer-supported cooperative work

## EDUCATION

- Aug 2020 - Present **Georgia Institute of Technology**  
Ph.D. student in Human-Centered Computing  
Advisor: Prof. Munmun De Choudhury
- Jan 2018 - May 2020 **Winona State University**  
BS in Applied Computer Science
- Aug 2016 - May 2017 **University of Michigan**  
Master of Accounting (Auditing)
- Aug 2012 - May 2016 **Colorado State University & East China Normal University**  
Bachelor of Business Administration

## EXPERIENCE

- Aug 2020 - Present **Georgia Tech, School of Interactive Computing**  
**Graduate Research Assistant**
- Researched the potential harm of generative models in creating misinformation. Examined the characteristics of misinformation created by large language model GPT-3 and the effectiveness of existing solutions, including pre-trained language models on misinformation detection and journalists-created information assessment guidelines. Results were submitted to CHI.
  - Currently working on detecting and understanding anti-Asian speech through sentence embedding and similarity-based techniques.
  - Studied the needs of veterans and developed technological solutions for veterans' PTSD treatment process. Analyzed decade-long social media data through topic modeling and sublanguage analyses to examine the needs and peer support of veterans. Designed and evaluated context-aware collective sensing systems for therapy through interviews and think-aloud sessions. Results were published at CSCW and CHI.
- May 2020 - Aug 2021 **Mayo Clinic, Department of AI and Informatics**  
**Research Intern**
- Mentors: Dr. Hongfang Liu and Dr. Ming Huang
- Researched and developed an evaluation framework of patient technology engagement to objectively and systematically evaluate engagement. Demonstrated the framework's utilization and effectiveness through mix-method analyses of patient portal logs and online user reviews. Results were published at IEEE ICHI.

May 2019 **Mayo Clinic**  
- Aug 2019 **UX Intern**

- Initiated and carried out the redesigning and rebuilding of websites used by researchers and clinicians. Conducted focus group interviews, created personas, wireframes, and hi-fi prototypes, and tested prototypes, taxonomy, and multi-site umbrella structure with users. The outcome web application was deployed and currently in use.

Jan 2015 **Colorado State University**  
- May 2015 **Undergraduate Research Assistant**

- Studied the correlations between report disclosures and stock price changes. Developed coding schema for disclosures of contingent liabilities for correlation analysis, and translated findings into data visualizations and flow diagrams.

## PUBLICATIONS

### Refereed Journal Article

CSCW 2022 **J Zhou**, K Saha, IML Carron, DW Yoo, CR Deeter, M De Choudhury, and RI Arriaga. **Veteran Critical Theory as a Lens to Understand Veterans' Needs and Support on Social Media.** *Proceedings of the ACM on Human-Computer Interaction* 6, no. CSCW1 (2022): 1-28.

### Refereed Conference Proceedings

IEEE ICHI 2022 **J Zhou**, RI Arriaga, H Liu, and M Huang. **A Tale of Two Perspectives: Harvesting System Views and User Views to Understand Patient Technology Engagement.** *Proceedings of IEEE International Conference on Healthcare Informatics (ICHI'22)*. [Top 2%]

CHI 2022 HI Evans, CR Deeter, **J Zhou**, K Do, AM Sherill, and RI Arriaga. **Perspectives on Integrating Trusted Other Feedback in Therapy for Veterans with PTSD.** *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '22)*, 1–16.

### Under Review Submissions

CHI **J Zhou**, Y Zhang, Q Luo, A Parker, M De Choudhury. **Synthetic Lies: Understanding and Evaluating Algorithmic and Human Solutions for AI-Generated Misinformation.** Submitted to *the ACM Conference on Human Factors in Computing Systems (CHI '23)*.

UBICOMP JW Park, SX Sun, T Cheng, DW Yoo, **J Zhou**, Y Do, GD Abowd, and RI Arriaga. **Exergy: A Toolkit to Simplify Creative Applications of Wind Energy Harvesting.** Submitted to *the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT)*.

MAYO CLINIC M Huang\*, G Mastorakos\*, A Khurana\*, **J Zhou**, N Zong, Y Yu, JE Prigge, CA Patten, H Liu, and BA Costello. **Characterizing the Users of Patient Portal Messaging: A Single Institutional Cohort Study.** Submitted to *Mayo Clinic Proceedings*.

## HONORS

2020 Outstanding Graduate, Winona State University

2018-2020 Cross-Cultural Scholarship, Winona State University

- 2017    Graduated with Distinction, University of Michigan
- 2016-2017    William J. and Donna W. Adams Scholarship, University of Michigan
- 2016    Cum Laude, Colorado State University
- 2014-2016    Outstanding International Student Scholarship, Colorado State University
- 2014-2016    Dean's List, Colorado State University
- 2013-2014    Scholarship for Academic Excellence, East China Normal University

## TALKS & PANELS

- 2022    *Synthetic Lies: Understanding and Evaluating Algorithmic and Human Solutions for AI-Generated Misinformation.*  
GVU Fall Research Showcase, Georgia Institute of Technology
- 2021    *Patient Portal Usage and Technology Engagement.*  
Research Panel in Quantitative Health Sciences, Mayo Clinic

## TEACHING

- 2022    *Graduate Teaching Assistant, Georgia Institute of Technology*  
CS 3001 Computing & Society (Instructor: Dr. Rebecca "Beki" Grinter)

## SERVICES

- Reviewing    **Conferences:** CSCW 2021, WebSci 2021, CHI 2023  
**Journal:** Frontiers in Big Data
- Mentorship    **Technovation Girls Challenge** (2020): mentored high-school female students to design and develop Android app for youth mental health that won semifinal for the Global Girls Challenge
- Volunteering    Student Volunteer: CSCW 2022  
Social Event Coordinator, GT Ubicomp Lab, 2020-2021  
Mentorship Program Vice Chair, ECNU, 2012-2013

## SKILLS

- Programming    Python, R, Java, Swift, HTML, CSS, JavaScript, MySQL, MongoDB
- Research    Natural language processing, Statistical analysis, Machine learning, Hypothesis testing, Interview, Qualitative coding, Contextual inquiry, Focus group, Think aloud, Affinity diagram
- Design    Wireframing/Prototyping, Sketching, Storyboarding, Participatory design