

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 aim to respond to real-world challenges, such as misinformation and hate speech, misuse of generative AI, social support strategies, and healthcare technology development.

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