Houjiang Liu

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Education

Ph.D. Student, Information Studies, The University of Texas at Austin, 2021 to present.
M.F.A. Design, Northeastern University, 2018–2020
B.S. Physics, Jilin University, 2011–2015

Publications (Authors with equal contributions are marked with †)

Under-reviewed Manuscripts

M2. **Houjiang Liu**†, Li Shi†, Yian Wong, Utkarsh Mujumdar, Dan Zhang, Jacek Gwizdka, and Matthew Lease. Argumentative Experience: Reducing Confirmation Bias on Controversial Issues through LLM-Generated Multi-Persona Debates. 2024.

M1. **Houjiang Liu**, Jacek Gwizdka, and Matthew Lease. Exploring Multidimensional Checkworthiness: Designing AI-assisted Claim Prioritization for Human Fact-checkers. 2024.

Peer-reviewed Journals

J4. **Houjiang Liu**†, Estefania Ciliotta Chehade†, William Albert, and Miso Kim. An Empirical Study of How Service Designers Use Metrics. *She Ji: The Journal of Design, Economics, and Innovation,* 9(3) :402–427, 2023.

J3. Mingzhu Li, Miso Kim, Liqing Huang, and **Houjiang Liu**. Designing for people you can't meet: Persuasive design to nurture seniors' participation in community services during the COVID-19 pandemic. *The Design Journal,* 26(6) :934–955, 2023.

J2. Sara Colombo, Estefania Ciliotta Chehade, Lucia Marengo, **Houjiang Liu**, Piero Molino, and Paolo Ciuccarelli. Design for Emergency: How Digital Technologies Enabled an Open Design Platform to Respond to COVID-19. *Interacting with Computers,* 35(5) :650–665, 2023.

J1. Anubrata Das, **Houjiang Liu**, Venelin Kovatchev, and Matthew Lease. The state of human-centered NLP technology for fact-checking. *Information Processing & Management*, 60(2) :103219, 2023.

Peer-reviewed Conference Proceedings

C7. **Houjiang Liu**†, Anubrata Das†, Alexander Boltz†, Didi Zhou, Daisy Pinaroc, Matthew Lease, and Min Kyung Lee. Human-centered NLP Fact-checking: Co-Designing with Fact-checkers using Matchmaking for AI. *Proceedings of ACM Human-Computer Interaction*. 8, CSCW2, Article 423, 44 pages, 2024.

C6. **Houjiang Liu** and Miso Kim. Is gift a token of gratitude or an imposition of identity? Facilitating positive consequences of gift-giving with receiver-centred design. In: *Proceedings of International Association of Societies of Design Research Congress (IASDR) 2023: Life-Changing Design* 2023. (M.F.A Thesis: *Enriching Gifts, Experience Design to Understand Human Relationships*, 2020)

C5. Jiabao Li, **Houjiang Liu**, Jilie Zeng, Di Wu, Ying Ding, and Alec McGail. Shifting Winds: Gendered Structures of Academic Mentorship. In: *2022 IEEE VIS Arts Program (VISAP)*, pp. 14–29, ieeexplore, 2022.

C4. Anubrata Das, **Houjiang Liu**, Venelin Kovatchev, and Matthew Lease. The Need for Human-centered Design in Fact-checking Research. In: *Proceedings of the 1st Information Processing & Management (IP&M) Conference* 2022.

C3. **Houjiang Liu**, Ray Lc, Miso Kim, Concettina Cormio, and Meixin Yu. Designing for Distance Nursing: Reconnecting Nursing Students with Senior Home Residents During COVID-19. In: *Proceedings of International Association of Societies of Design Research Congress (IASDR) 2021: [ ] With Design: Reinventing Design Modes*, pp. 2571–2582, Springer Nature Singapore, 2022.

C2. **Houjiang Liu**, Miso Kim, Mingzhu Li, and Shruthi Lakshmi Narayan. Technology, Autonomy, and Participation: Designing Community Games and Services to Enhance Older Adults' Technology Literacy. In: *Proceedings of International Association of Societies of Design Research Congress (IASDR) 2021: [ ] With Design: Reinventing Design Modes*, pp. 1575–1591, Springer Nature Singapore, 2022.

C1. **Houjiang Liu**, Miso Kim, Canqun He, and Tia Thomson. Autonomy as a Design Principle: Service Design for the Technology Literacy of Older Adults. In: *Proceedings of Design Culture(s) Cumulus Conference Roma 2021*, pp. 1190–1207, Cumulus, 2021.

Posters and Presentations

P6. Argumentative Experience: Reducing Confirmation Bias on Controversial Issues through LLM-Generated Multi-Persona Debates. iSchool AI Showcase: Community-Engaged Research on AI and Society, UT Austin, 2024.

P5. Multi-Agentic LLM Framework to Mitigate Cognitive Biases in Information-Seeking Contexts. Good Systems Annual Symposium, Shaping the Future of Ethical AI, UT Austin, 2024.

P4. An Exploration of Service Design Metrics. Research, Innovation, Scholarship, Entrepreneurship (RISE), Virtual EXPO, Northeastern University, 2021.

P3. Participatory Design for Senior Healthcare: Service Design to Improve Seniors' Health Literacy and Autonomy. Research, Innovation, Scholarship, Entrepreneurship (RISE), Northeastern University, 2020.

P2. Enriching Family Gifts: Reciprocity in Family Relationships (Abstract). NA PhD by Design Symposium, New York University, 2020.

P1. How Food is Served in Early Care Center. Northeastern University Visualization Consortium (NUVis) Demofest, 2019.

Academic and Professional Experience

Academic

Research Assistant, AI Human-Centered Computing Group, UT Austin, 2021 – present
Design Researcher, Center for Design, NEU, 2020 – 2021
Lecturer, College of Arts, Media and Design, NEU, 2020 – 2021

Professional

UX Designer, SeetaTech, Beijing, 2017–2018
UX Designer, JD.com, Beijing, 2015–2017
Design Intern, JD.com, Beijing, 2015

Design Intern, Lenovo, Harbin, 2013
Design Intern, Midea Group, Guangdong, 2012

Teaching Experience

Teaching Fellow, College of Arts, Media and Design, NEU

ARTG2400 Interaction Design, Spring 2021
ARTG2401 Interaction Design Tools, Fall 2019, Spring 2020

Teaching Assistant, College of Arts, Media and Design, NEU

ARTG6330 Info Design Mapping Strategies, Fall 2020
ARTG6900 Design for Dignity, Fall 2019

Awards

Research Awards/Grants/Scholarship

Professional Development Award, UT Austin, 2023–24
Summer Research Grant, UT Austin, 2023
Center for Design's Bridges Fellowship, NEU, 2021
CAMD Deans' Award for Research, Scholarship, and Creative Activity, NEU, 2020
CAMD Summer Research Scholarship, NEU, 2019
Graduate Student Scholarship, NEU, 2018–20
Undergrad Merit Scholarship, JLU, 2012–13, 15
Second-class Award of Math Modeling, JLU, 2012

Others

Reviewer with Special Recognition, CSCW 25, 24, UIST 24
Longlist, Information is Beautiful Awards, 2022
First Design Award, Mad*Pow Health x Design Challenge, 2019
Innovative Design Award, Reinventing Tencent Map, Tencent, 2014

Service

PhD representative, iSchool, UT Austin
Research Committee 24–25, Master's Studies Committee 21–22

Paper reviewer
CSCW 25, 24, 22, DRS 24, UIST 24

Student volunteer
CSCW 24, WWW 23, CHIIR 22, UXPA International 15