Yuhan Liu

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🎓 Google Scholar

Research Interest

Human-Computer Interaction, Social Computing, Decentralized Sociotechnical Systems, Future of Work

Education

Ph.D. Candidate in in Computer Science   2022-current
Princeton University   Princeton, USA
Advised by Dr. Andrés Monroy-Hernández

Master of Information Systems Management   2019-2020
Carnegie Mellon University   Pittsburgh, USA

B.Eng. Software Engineering   2015-2019
Tianjin University   Tianjin, China

Publications

Peer-Reviewed Conference and Journal Publications

6. **Understanding Decentralized Social Feed Curation on Mastodon.**
   Yuhan Liu, Emmy Song, Owen Xingjian Zhang, Jewel Merriman, Lei Zhang, Andrés Monroy-Hernández.
   CSCW 2025

5. **Exploring the Design Space of Real-time LLM Knowledge Support Systems: A Case Study of Jargon Explanations.**
   Yuhan Liu, Aadit Shah, Jordan Ackerman, Manaswi Saha.
   CHI 2025

4. **Mapping the Landscape of Independent Food Delivery Service in the United States.**
   Yuhan Liu*, Amna Liaqat*, Owen Xingjian Zhang, Mariana Consuelo Fernandez Espinosa, Ankhitha Manjunatha, Alexander Yang, Orestis Papakyriakopoulos, Andrés Monroy-Hernández.
   CSCW 2024

3. **Exploring Trade-offs for Online Mental Health Matching: An Agent-Based Modeling Study.**
   Yuhan Liu*, Anna Fang*, Glen Moriarty, Cristopher Firman, Robert E. Kraut, Haiyi Zhu.
   JMIR Formative Research 2024

2. **Understanding Human Intervention in the Platform Economy: A case study of an indie food delivery service.**
   Samantha Dalal, Ngan Chiem, Nikoo Karbassi, Yuhan Liu, Andrés Monroy-Hernández.
   CHI 2023

1. **Comparing Experts and Novices for AI Data Work: Insights on Allocating Human Intelligence to Design a Conversational Agent.**
   Lu Sun, Yuhan Liu, Grace Joseph, Zhou Yu, Haiyi Zhu, Steven P. Dow.
   HCOMP 2022

Peer-Reviewed or Juried Short Papers and Posters

6. **ConversAR: Exploring Embodied LLM-Powered Group Conversations in Augmented Reality for Second Language Learners.**
   Jad Bendarkawi, Ashley Ponce, Sean Mata, Aminah Aliu, Yuhan Liu, Lei Zhang, Amna Liaqat, Varun Nagaraj Rao, Andrés Monroy-Hernández.
   CHI 2025 Late-Breaking Work

5. **PolicyPulse: LLM-Synthesis Tool for Policy Researchers.**
   Maggie Wang, Ella Colby, Jennifer Okwara, Varun Nagaraj Rao, Yuhan Liu, Andrés Monroy-Hernández.
   CHI 2025 Late-Breaking Work

4. **GPTFootprint: Increasing Consumer Awareness of the Environmental Impacts of LLMs.**
   Nora Graves, Vitus Larrieu, Yingyue Trace Zhang, Joanne Peng, Varun Nagaraj Rao, Yuhan Liu, Andrés Monroy-Hernández.
   CHI 2025 Late-Breaking Work

3. **Dr. GPT in Campus Counseling: Understanding Higher Education Students' Opinions on LLM-assisted Mental Health Services.**
   Owen Xingjian Zhang, Shuyao Zhou, Jiayi Geng, Yuhan Liu, Sunny Xun Liu.
   CSCW 2024 Workshop
   Envisioning New Futures of Positive Social Technology: Beyond Paradigms of Fixing, Protecting, and Preventing

2. **Evaluating Fairness in Black-box Algorithmic Markets: A Case Study of Ride Sharing in Chicago.**
   Yuhan Liu, Yuhan Zheng, Siyuan Zhang, Lydia T. Liu.
   ICML 2024 Workshop
   Humans, Algorithmic Decision-Making and Society: Modeling Interactions and Impact

1. **Should Policymakers be Involved? Understanding the Opinions and Needs for Independent Food Delivery Platforms in the United States regarding Public Policy.**
   Yuhan Liu, Amna Liaqat, Andrés Monroy-Hernández.
   CHI 2023 Workshop
   Designing Technology and Policy Simultaneously: Towards A Research Agenda and New Practice

Patents

2. **Intelligent classifying garbage can based on image recognition technology.**
   CN Patent 109305490A
   Filed October 14, 2018, and issued February 5, 2019

1. **Comprehensive identification-based intelligent classification traditional garbage can reforming device.**
   CN Patent 109264255A
   Filed October 17, 2018, and issued January 25, 2019.

In Submission

3. **Designing Physical Infrastructure to Support Gig Workers' Work-adjacent Activities**
   Yuhan Liu, Shirley Dongwei Chen, Andrés Monroy-Hernández

2. **Loose Collaboration and Messy Entanglements: A Designer's Journey of Co-Creation Across Space and Time**
   Shirley Dongwei Chen, <u>Yuhan Liu</u>, Andrés Monroy-Hernández

1. **EmoAgent: Assessing and Safeguarding Human-AI Interaction for Mental Health Safety**
   Jiahao Qiu, Yinghui He, Xinzhe Juan, Yimin Wang, <u>Yuhan Liu</u>, Zixin Yao, Yue Wu, Xun Jiang, Ling Yang, Mengdi Wang.

Research Experience	*Research Assistant*	2021-current
	PrincetonHCI Lab	Princeton University
	Research Supervisor: Dr. Andrés Monroy-Hernández	
	Research Topics: Future of Work, Decentralized Social Media	
	Research Assistant	2021
	Social AI Group	Carnegie Mellon University
	Research Supervisor: Dr. Haiyi Zhu, Dr. Robert E. Kraut	
	Research Topics: Online Communities, Agent-Based Modeling	
	Research Assistant	2020
	Social AI Group	Carnegie Mellon University
	Research Supervisor: Dr. Haiyi Zhu, Dr. Steven P. Dow	
	Research Topics: Crowdsourcing, Conversational Agent	

Employment	*Research Scientist Intern*	2024
	Accenture	NJ
	Research Scientist Intern	2023
	Palette Labs	Remote

Teaching

Princeton University • *Teaching Assistant & Preceptor*

• COS 436: Human-Computer Interaction	FA23, FA24
• EGR 371: Designing the Future of Work	SP25

Carnegie Mellon University • *Teaching Assistant*

• 95760: Decision Making Under Uncertainty	FA20
• 46902: Financial Computing	SP20

Honors and Awards

First-year Fellowship in Natural Sciences and Engineering
$100,410, Princeton University   2022

Graduate Fellowship in Data-Driven Social Science
$3,600, Princeton University   2023, 2024

SEAS Travel Grant
$350, Princeton University   2024

Special Recognitions for Outstanding Reviews
Creativity & Cognition   2024

Academic Service

Organizibng Committee
• CHI Publicity & Social Media Co-Chair 2026

Associate Chair
• CHI LBW 2025
• Creativity & Cognition 2025

Reviewer

- Journal of Computer Supported Cooperative Work 2025
- CHI 2025
- DIS 2024, 2025
- The Web Conf 2024, 2025
- Mensch und Computer 2024
- UIST 2024
- CSCW 2024
- Creativity & Cognition 2024
- CHI LBW 2022, 2023
- CSCW Poster 2022

Student Volunteer
- UIST 2024
- CSCW 2022, 2023

Others
- HCI.SOCIAL Mastodon Instance: Admin & Moderator
- Princeton Micro Blogs Mastodon Instance: Admin & Moderator
- Decentralized Social Media Workshop 2024: Organizer

Skills

Programming Languages: Python, Java, Javascript, C++, PHP, C#, Solidity
Tools: Git, Figma, Google Cloud Platform, Docker, AWS