Jiachen Li

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Research Focus

Multi-stakeholder Human-AI Collaboration in Health — Designing and studying AI systems that support human-AI sensemaking, information sharing, and evolving collaboration between **older adults** and the people around them, through **in-the-wild longitudinal deployments**.

Education

Northeastern University 2022 – present

Ph.D. in Computer Science - Human Computer Interaction

Advisors: Elizabeth Mynatt, Varun Mishra

Georgia Institute of Technology 2020 –2022

M.S. in Digital Media - Human Computer Interaction

Advisors: Elizabeth Mynatt, Christopher Le Dantec

Beijing University of Posts and Telecommunications (BUPT) 2015 –2019

B.Eng. in Electronic Information and Technology

University of California, Berkeley 2018

Exchange student

Work Experience

Microsoft Research & Microsoft AI – Health Futures & MAI Health Summer 2026

Research Intern

- Led mixed-methods analysis of a **6-week, longitudinal in-the-wild diary study** of **Copilot Health** with **200+ participants** and **3,000+ diary entries**, uncovering how users integrate AI into real-world health journeys over time.
- Synthesized longitudinal journeys across **EHR data**, **wearable metrics**, and **health-related decision-making**, translating findings into actionable recommendations that directly informed **product decisions** and future directions for Copilot Health.

Microsoft Research – Health Futures Summer 2025

Research Intern

- Designed and conducted a user study with **15+ oncologists** evaluating HAO (Healthcare Agent Orchestrator), a **multi-agent LLM system** for multidisciplinary tumor board preparation.
- First author of a **CHI' 26 Best Paper Honorable Mention**; findings had significant impact on **product decisions** and informed the team's ongoing HAO research and product roadmap.

Accenture – Digital Experiences Summer 2023

Summer Research Specialist

- Developed and evaluated an **LLM-powered** AR tool to bridge knowledge gaps in **online meetings**; prototype was integrated into the company's **internal product map** for future development.

Publications

Conferences and Journals

[P15] TRACE: Temporal Reasoning over Context and Evidence for Activity Recognition in Smart Homes

Yingtian Shi, Abivishaq Balasubramanian, Jessica Herring, **Jiachen Li**, Juan Macias Romero, Rosemarie Santa Gonzalez, Varun Mishra, Agata Rozga, Xiang Zhi Tan, Thomas Ploetz, **IMWUT UbiComp' 27**

[P14] DAIMON: Designing AI-Augmented Research Dashboards to Enable Novel Human-AI Collaborative Workflows in Longitudinal Sensing Studies

Akshat Choube, Shreeti Shrestha, Ha Le, **Jiachen Li**, Vedant Das Swain, Varun Mishra, **IMWUT UbiComp' 26**

[P13] Exploring the Future of AI in Clinical Collaboration: A Study on Tumor Board Case Preparation

Jiachen Li, Amanda K. Hall, Ruican Zhong, Selin Everett, Alyssa Unell, Hanwen Xu, Matthias Blondeel, Jonathan Carlson, Katie Claveau, Thulasee Jose, Tristan Naumann, David C. Rhew, Naiteek Sangani, Frank Tuan, Jim Weinstein, Varun Mishra, Elizabeth D. Mynatt, Scott Saponas, Hao Qiu, Leonardo Schettini, Sam Preston, Aiden Gu, Naoto Usuyama, Zelalem Gero, Cliff Wong, Noel Christopher Codella, Hoifung Poon, Shrey Jain, Matthew Lungren, Eric Horvitz, **CHI' 26**

🏅 **Best Paper Honorable Mention**

[P12] Vital Insight: Assisting Experts' Sensemaking Process of Multi-modal Personal Tracking Data Using Visualization and LLM

Jiachen Li, Justin Steinberg, Xiwen Li, Akshat Choube, Bingsheng Yao, Dakuo Wang, Elizabeth Mynatt, Varun Mishra, **IMWUT UbiComp' 25**

[P11] GLOSS: Group of LLMs for Open-Ended Sensemaking of Passive Sensing Data for Health and Wellbeing

Akshat Choube, Ha Le, **Jiachen Li**, Kaixin Ji, Vedant Das Swain, Varun Mishra, **IMWUT UbiComp' 25**

[P10] Imputation Matters: A Deeper Look into an Overlooked Step in Longitudinal Health and Behavior Sensing Research

Akshat Choube, Rahul Majethia, Sohini Bhattacharya, **Jiachen Li**, Vedant Das Swain, Varun Mishra, **IMWUT UbiComp' 25**

[P9] Insights from Designing Context-Aware Meal Preparation Assistance for Older Adults with Mild Cognitive Impairment (MCI) and Their Care Partners

Szeyi Chan*, **Jiachen Li***, Siman Ao, Yufei Wang, Ibrahim Bilau, Brian Jones, Eunhwa Yang, Elizabeth Mynatt, Xiang Zhi Tan, **DIS' 25**

[P8] "Always Nice and Confident, Sometimes wrong": Developer's Experiences Engaging Generative AI Chatbots Versus Human-Powered Q&A Platforms

Jiachen Li, Varun Mishra, Elizabeth Mynatt, Jonathan Bell, **CSCW' 25**

[P7] "Mango Mango, How to Let The Lettuce Dry Without A Spinner?": Exploring User Perceptions of Using An LLM-Based Conversational Assistant Toward Cooking Partner

Szeyi Chan*, **Jiachen Li***, Bingsheng Yao, Amama Mahmood, Chien-Ming Huang, Holly Jimison, Elizabeth D Mynatt, Dakuo Wang, **CSCW' 25**

[P6] Challenges and Strategies of Managing Mental Health Medication in Real-World Practices: Interview Study Among University Students

Jiachen Li, Justin Steinberg, Elizabeth Mynatt, Varun Mishra, **JMIR Human Factors**

[P5] Privacy vs. Awareness: Relieving the Tension between Older Adults and Adult Children When Sharing In-home Activity Data

Jiachen Li, Bingrui Zong, Tingyu Cheng, Yunzhi Li, Elizabeth D Mynatt, Ashutosh Dhekne, **CSCW' 24**

[P4] More Samples or More Prompts? Exploring Effective Few-Shot In-Context Learning for LLMs with In-Context Sampling

Bingsheng Y, Guiming C, Ruishi Z, Yuxuan L, **Jiachen Li**, Shao Z, Sijia L, James H, Dakuo Wang, **NAACL' 24**

[P3] A Collaborative Approach to Support Medication Management in Older Adults with Mild Cognitive Impairment Using Conversational Assistants (CAs)

Niharika Mathur, Kunal Dhodapkar, Tamara Zubatiy, **Jiachen Li**, Brian Jones, and Elizabeth Mynatt, **ASSETS' 22**

🏅 **Best Paper Award**

[P2] PITAS: Sensing and Actuating Embedded Robotic Sheet for Physical Information Communication

Tingyu Cheng, Jung Wook Park*, **Jiachen Li***, Charles Ramey, Hongnan Lin, Gregory D. Abowd, Carolina Brum Medeiros, HyunJoo Oh, and Marcello Giordano, **CHI' 22**

🏅 **Honorable mention** in Fast Company's' 22 Innovation by Design Awards

🏅 **Student notable interaction award** in' 22 Core77 Design Award

[P1] Video-based Parent-Child Relationship Prediction

Ying Sun*, **Jiachen Li***, Yiwen Wei, Haibin Yan, **IEEE VCIP' 18**

Workshop & Symposium

[W7] AI-Assisted Sensemaking and Data Sharing of Multi-Modal Sensing: Supporting Care Coordination for Aging in Place

Jiachen Li, **IMWUT UbiComp Doctor Colloquium' 26**

[W6] From 'What' to 'How' and 'Why': Sharing LLM-Generated Retrospective Summaries of Older Adults' Passive Tracking Data with Remote Family Members

Jiachen Li, Reina Szeyi Chan, Akshat Choube, Xiang Zhi Tan, Elizabeth D Mynatt, Varun Mishra, **IMWUT UbiComp Poster' 26**

[W5] Not Another EHR: Reimagining Physician Information Needs with Generative AI Technology

Ruican Zhong, **Jiachen Li**, Gary Hsieh, David W. Mcdonald, Selin S. Everett, Alyssa Unell, Jonathan Carlson, Katie Claveau, Noel Codella, Khalil Malik, Scott Mackie, Eduardo Olvera, Scott Saponas, Eric Horvitz, David Rhew, Jim Weinstein, Jacob Gross, Amanda K. Hall, **CHI Workshop' 26 (GenUI)**

[W4] CancerGUIDE: Cancer Guideline Understanding via Internal Disagreement Estimation

Alyssa Unell, Noel C Codella, J. Samuel Preston, Peniel Argaw, Wen-wai Yim, Zelalem Gero, Cliff Wong, Rajesh Jena, Eric Horvitz, Amanda K. Hall, Rachel Ruican Zhong, **Jiachen Li**, Shrey Jain, Mu Wei, Matthew P. Lungren, Hoifung Poon, **NeurIPS Workshop' 25 (GenAI4Health)**

[W3] LLM-Powered Conversational Agent for Older Adults with Mild Cognitive Impairment (MCI): A 3 Month Deployment Case Study

Jiachen Li, Bingsheng Yao, Dakuo Wang, Elizabeth Mynatt, Varun Mishra, **CHI Workshop' 25**

[W2] Vital Insight: Assisting Experts Sensemaking Process of Multi-modal Personal Tracking Data Using Visualization and LLM

Jiachen Li, Justin Steinberg, Xiwen Li, Akshat Choube, Bingsheng Yao, Dakuo Wang, Elizabeth Mynatt, Varun Mishra, **CHI Workshop' 25**

[W1] Understanding the Daily Lives of Older Adults: Integrating Multi-modal Personal Health Tracking Data through Visualization and Large Language Models

Jiachen Li, Justin Steinberg, Xiwen Li, Bingsheng Yao, Dakuo Wang, Elizabeth Mynatt, Varun Mishra, **AAAI AiP' 24**

In Progress

[A3] An Open Book, On Whose Terms? Power Dynamics in Sensor-Derived, LLM-Generated Summaries Sharing Between Older Adults and Remote Families

Jiachen Li, Reina Szeyi Chan, Shihan Fu, Zijian Wang, Akshat Choube, Yingtian Shi, Rosemarie Santa Gonzalez, Thomas Ploetz, Agata Rozga, Xiang Zhi Tan, Elizabeth D Mynatt, Varun Mishra, **arxiv**

[A2] I Wish There Were an AI : Challenges and AI Potential in Cancer Patient-Provider Communication

Ziqi Yang, Xuhai Xu, Bingsheng Yao, **Jiachen Li**, Jennifer Bagdasarian, Guodong Gao, Dakuo Wang, **arxiv**

[A1] Human and LLM-Based Voice Assistant Interaction: An Analytical Framework for User Verbal and Nonverbal Behaviors

Szeyi Chan, Shihan Fu, **Jiachen Li**, Bingsheng Yao, Smit Desai, Mirjana Prpa, Dakuo Wang, **arxiv**

Awards and Recognition

2026 **Best Paper Honorable Mention**, ACM CHI
2023 **Special Recognition for Outstanding Review**, ACM CHI
2022 **Best Paper Award**, ASSETS
2022 **Honorable mention**, Fast Company's' 22 Innovation by Design Awards
2022 **Student Notable Interaction Award**, Core77 Design Award
2017 **First-Class Scholarship**, BUPT
2017 **Outstanding Peer Tutor**, BUPT
2017 **Outstanding Student**, BUPT

Grant Writing Experience

OpenAI GenAI for Teens, *Signal, Not Surveillance: A Multi-Stakeholder Safeguard Taxonomy for Teens' Generative AI Use* -- Under Review, '26

PI: Jiachen Li

Led the proposal identifying the taxonomy of risks and safeguards arising from teens' generative AI use.

NIH R01, *AI-Assisted Ecosystem for Longitudinal Behavioral Sensemaking and Collaborative Caregiving* -- Under Review,' 26

PI: Varun Mishra

Contributed to proposal conceptualization and writing; the proposed research directly builds on my

work on AI-assisted sensemaking and health information sharing in longitudinal deployment.

NIH R21, *A Connected Health Ecosystem for Healthy Aging* -- Not Funded,' 25

PI: Varun Mishra

Contributed to proposal writing; the proposal incorporated preliminary findings from my research on AI-assisted health sensemaking.

MassAITC Pilot Proposal, *Digital Phenotyping and Large Language Models to Enable Aging in Place* -- Not Funded,' 25

PI: Varun Mishra

Contributed to proposal writing on the use of digital phenotyping and LLMs to support aging in place.

Service

AC	ACM CHI LBW' 25
Organizer	IMWUT UbiComp Tutorials' 26
Reviewer	ACM CHI, ACM CSCW, IMWUT UbiComp, ACM DIS, IJHCS, ...

Invited Talk

Center for Technology and Behavioral Health (CTBH) at Dartmouth Seminar Series

AI-Assisted Sensemaking and Data Sharing of Multi-Modal Sensing: Supporting Care Coordination for Aging in Place

Teaching Experience

2024	Teaching Assistant	CS6350 Empirical Research Methods
2022 - 2026	Multiple Guest Lectures	

Students Mentoring

2026 - present	Dao Ho	B.S. in Computer Science
2026 - present	Zijian Wang	B.S. in Computer Science
2023 - present	Shihan Fu	M.S. - PhD. in Computer Science
2026	Emma Vonbuelow	B.S. in Computer Science
2025 - 2026	Xueni Tang	M.S. in Computer Science
2025 - 2026	Ayesha Fatima	M.S. in Computer Science
2025 - 2026	Coco Choi	M.S. in Computer Science
2024 - 2025	Xiwen (Nancy) Li	M.S. in Experience Design
2023 - 2025	Szeyi (Reina) Chan	M.S. - PhD. in Computer Science
2022 - 2024	Justin Steinberg	M.S. in Computer Science
2022 -- 2023	Yufei (Vicky) Wang	M.S. in Human Computer Interaction
2022 - 2023	Siman (Avery) Ao	M.S. in Human Computer Interaction