Jiachen Li

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Research Focus

Human Computer Interaction (HCI), Ubiquitous Computing, Sensemaking, Older Adults, Multi-modal, Wearable Sensing, Conversational Agent, LLM Simulated Agents, Visualization, Mixed-methodologies, Thematic Analysis

Education

Northeastern University   2022 - present

Ph.D. in Computer Science

Advisors: Elizabeth Mynatt, Varun Mishra

Georgia Institute of Technology   2020 - 2022

M.S. in Digital Media

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 - Health Futures Team   Summer 2025

Research intern

Developed and conducted user study on a multi-agentic LLM system (HAO, Healthcare Agent Orchestrator) for MTB (multidisciplinary tumor board) with oncologists.

Accenture - Digital Experiences Team   Summer 2023

Summer research specialist

Developed and conducted user study on an LLM-based AR tool to close the knowledge gap in online meetings.

Peer-reviewed Publications

[P15]   Exploring the Future of AI in Clinical Collaboration: A Study on Tumor Board Case Preparation
Jiachen Li, Amanda Hall, Ruican Zhong, [...], Eric Horvitz

CHI 2026

[P14]   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 2025

[P13] 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 2025

[P12] Imputation Matters: A Deeper Look into an Overlooked Step in Longitudinal Health and Behavior Sensing Research

Akshat Choube, Rahul Majethia, Sohini Bhattacharya, Vedant Das Swain, **Jiachen Li**, Varun Mishra

IMWUT 2025

[P11] 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 2025

[P10] "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 2025

[P9] "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 2025

[P8] 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

TOCHI   *in submission*

[P7] "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 2024

[P6] 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 2024

[P5] "I Wish There Were an AI": Challenges and AI Potential in Cancer Patient-Provider Communication

Ziqi Yang, Xuhai Xu, Bingsheng Yao, **Jiachen Li**, J Bagdasarian, G Gao, Dakuo Wang

JMIR   *in submission*

[P4] 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 2022

🏅 **Best Paper Award**

[P3] Navigating the Paradox: Challenges and Strategies of University Students Managing Mental Health Medication in Real-World Practices

Jiachen Li, Justin Steinberg, Elizabeth Mynatt, Varun Mishra

JMIR *in submission*

[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 2022

🏅 **Honorable mention** in Fast Company's 2022 Innovation by Design Awards

🏅 **Student notable interaction award** in 2022 Core77 Design Award

[P1] Video-based Parent-Child Relationship Prediction

Ying Sun*, **Jiachen Li***, Yiwen Wei, Haibin Yan

IEEE VCIP 2018

Workshop & Symposium Papers

[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 2025 (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 2025

[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 Worshop 2025

[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 2024

Awards and Recognition

2024   **AIVO Travel Grant** | AIVO Expansion Programs

2023   **Special Recognition for Outstanding Review** | ACM CHI

2023   **Khoury PhD Network Travel Award** | Northeastern University Khoury College

2022   **Best Paper Award** | ASSETS

2022   **Honorable mention** | Fast Company's 2022 Innovation by Design Awards

2022   **Student Notable Interaction Award** | Core77 Design Award

2022   **Gary Marsden Travel Awards** | SIGCHI

2017   **First-Class Scholarship** | BUPT

2017   **Outstanding Peer Tutor** | BUPT

2017   **Outstanding Student** | BUPT

Skills

Research Method & UX

Mixed-methodologies, Qualitative research (Interview / survey / focus group), Thematic analysis, Field study & longitudinal deployment, Quantitative empirical study (A/B test), Usability testing, Accessibility & Disability

AI & Machine Learning

GenAI (LLM), Scikit-learn, Tensorflow, PyTorch, AI ethics, Mobile/wearable sensing and prediction, Human-centered Machine Learning / NLP

Coding

python, R, HTML, React-JS, MongoDB, Pandas, C/C++, Java Script

Design

Figma, Sketch, Adobe Creative Cloud, Tableau, Final Cut Pro

Student Mentoring

2025 - present	Xueni Tang	M.S. in Computer Science
2025 - present	Ayesha Fatima	M.S. in Computer Science
2025 - present	Coco Choi	M.S. in Computer Science
2024 - 2025	Xiwen (Nancy) Li	M.S. in Experience Design
2023 - 2025	Szeyi (Reina) Chan	M.S. in Computer Science - 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

Service

AC   ACM CHI LBW | 2025
Reviewer ACM CHI | ACM CSCW | ACM IMWUT | ACM DIS | IJHCS

Teaching Experience

2024   Teaching Assistant | CS6350 Empirical Research Methods