

Ray-Yuan (Ray) Chung

raychung@uw.edu Google Scholar Personal Site

Interests: Generative & Agentic AI, Human-AI Collaboration, Responsible AI, Health Technologies

EDUCATION

University of Washington, Seattle, WA 2023–Present
Ph.D. in Health Informatics, Concentration: Human-centered AI
Committee: Dr. Ari Pollack, Dr. Wanda Pratt, Dr. Xuhai "Orson" Xu, Dr. James Fogarty
University of Michigan, Ann Arbor, MI 2018–2020
M.P.H. in Behavioral Science, Concentration: Nutrition
Honors: Global Scholars Award (Full Scholarship)
National Chung-Hsing University, Taichung, Taiwan 2013–2017
B.S. , Concentration: Pre-Med

PROFESSIONAL LICENSURES

Registered Dietitian, United States 2021–Present
Specializations: Mental Health, Behavioral Science and Sports Nutrition

PROFESSIONAL & RESEARCH EXPERIENCE

University of Washington, Seattle, WA Sep 2023–Present
Graduate Student Researcher

Unita Health, Santa Clara, CA Sep 2024–Sep 2025
Research Scientist, AI Agent

Dexcom, San Diego, CA Jun 2024–Sep 2024
User Experience Research Intern
Mentor: Dr. Shomir Chaudhuri

Impossible Foods Research, Redwood City, CA May 2022–Aug 2023
Research Scientist
Mentor: Dr. Sue Klapholz

Eating Recovery Center, Bellevue, WA Jun 2021–Apr 2022
Clinical Dietitian

Pharmavite Research, West Hills, CA Jun 2019–Aug 2019
Research Intern
Mentor: Dr. Ryan Grant

PUBLICATIONS

- Feng Chen, Luna Li, **Ray-Yuan Chung**, Wenyu Zeng, Yein Jeon, Oleg Zaslavsky. Bridging the Cognitive Gap: Co-Designing and Evaluating a Voice-Enabled Community Chatbot for Older Adults. *AMIA 2026*.
- **Ray-Yuan Chung**, Xuhai "Orson" Xu, Ari Pollack. Rethinking Health Agents: From Siloed AI to Collaborative Decision Mediators. *Workshop on Human-Agent Collaboration, CHI 2026*.

- **Ray-Yuan Chung**, Jaime Snyder, Zixuan Xu, Daeun Yoo, Athena C. Ortega, Wanda Pratt, Aaron Wightman, Ryan Hutson, Cozumel Pruette, Ari Pollack. *Design Considerations for Collaborative Decision-making Technologies in Pediatric Chronic Care. Extended Abstract, CHI 2026.*
- **Ray-Yuan Chung**, Athena C. Ortega, Zixuan Xu, Daeun Yoo, Jaime Snyder, Wanda Pratt, Aaron Wightman, Ryan Hutson, Cozumel Pruette, Ari Pollack. Understanding Perspectives of Patients, Caregivers and Clinicians towards Emerging Collaborative-decision Making Technologies. *Workshop on Interactive Systems in Healthcare (WISH), AMIA 2025.*
- Luna Li, **Ray-Yuan Chung**, Feng Chen, Wenyu Zeng, Yein Jeon, Oleg Zaslavsky. Learning from Elders: Making an LLM-powered Chatbot for Retirement Communities more Accessible through User-centered Design. *CALD-AI Workshop, ASIS&T 2025.*
- **Ray-Yuan Chung**, Feng Chen, Yein Jeon, Oleg Zaslavsky. Improve Technology and EHealth Literacy in a Retirement Community via the Use of LLM-Powered Chatbot. *Innovation in Aging 2024.*
- Feng Chen, Manas Satish Bedmutha, **Ray-Yuan Chung**, Janice Sabin, Wanda Pratt, Brian R Wood, Nadir Weibel, Andrea L Hartzler, Trevor Cohen. Toward Automated Detection of Biased Social Signals from the Content of Clinical Conversations. *AMIA 2024.*
- Prasad P Devarshi, **Ray-Yuan Chung**, Carroll A Reider, Ryan W Grant, Susan Hazels Mitmesser. Nutrient Gaps in US Adults by Age and Gender: Vitamin A, D, E, K, C, Magnesium, Calcium, Choline and Dietary Fiber. *Journal of the Academy of Nutrition and Dietetics 2020.*
- Carroll A Reider, **Ray-Yuan Chung**, Prasad P Devarshi, Ryan W Grant, Susan Hazels Mitmesser. Inadequacy of immune health nutrients: intakes in US adults, the 2005–2016 NHANES. *Nutrients 2020.*

HONORS AND AWARDS

- Ira Kalet and Fred Wolf Endowment Award, University of Washington (2025)
- Top Scholars Award, University of Washington (2023)
- Global Scholars Award, NSF International (2018–2020)
- Maxine Moore Scholarship, University of Michigan (2019)

INVITED TALKS

- Diversify Dietetics Summit (2025)
- GATE Sports Agency Sports Talk Series (2023)
- University of Michigan Dietetics Seminar (2021)

SERVICES

- Reviewer, ACM CHI (2026)
- Reviewer, ACM IH (Interactive Health) (2026)
- Reviewer, ACM Transactions on Computing for Healthcare (2025)

SKILLS

Technical: Python, R, JavaScript (React), LangChain, Figma, Tableau, REDCap, Qualtrics, Prolific
AI/ML: LLMs, Fine-tuning, Prompt Engineering, RAG, Multi-Agent Systems, NLP, Multimodal Learning, Reinforcement Learning

UX/HCI Research: Diary Studies, Interviews, Surveys, Wizard of Oz, Usability Testing, Participatory

Design, Journey Mapping, Statistical Modeling

Behavioral Science: Behavior Change Design, Health Behavior Theory, Experimental Design