

Ka I Chan

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Research Interests

Human-Computer Interaction, Health Informatics, Human-Centered AI

Education

- 2025 – Present **University of Michigan** Ann Arbor, MI, United States
Ph.D. in Information
Advisors: Sun Young Park & Mark W. Newman
- 2022 – 2025 **Tsinghua University** Beijing, China
M.S.E. in Data Science and Information Technology
Advisors: Yuanchun Shi & Yuntao Wang
🏆 Outstanding Graduate Award & Outstanding Master's Thesis
- 2018 – 2022 **Tsinghua University** Beijing, China
B.S. in Psychology
🏆 Excellent Graduate Award

Publications

* denotes equal contribution

Conference & Journal Publications

- 2026 [P.7] **SpeakSoftly: Scaffolding Nonviolent Communication in Intimate Relationships through LLM-Powered Just-In-Time Interventions**
Ka I Chan, Hongbo Lan, Jun Fang, Yuntao Wang, Yuanchun Shi
TOCHI (under review) - *ACM Transactions on Computer-Human Interaction*
- [P.6] **Earinter: A Closed-Loop System for Eating Pace Regulation with Just-in-Time Intervention Using Commodity Earbuds**
Jun Fang, Ka I Chan, Xiyuxing Zhang, Yuntao Wang, Mingze Gao, Leyi Peng, Jiajin Li, Zihang Zhan, Zhixin Zhao, Yuanchun Shi
IMWUT (under review) - *ACM Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.5] **Human and algorithmic visual attention in driving tasks**
Chen Zheng, Pengfei Li, Bu Jin, Shanhe You, Ka I Chan, Ya-Qin Zhang, Guyue Zhou, Jiangtao Gong
npj Artificial Intelligence

- 2025 [P.4] **A Review of Behavioral Closed-Loop Paradigm from Sensing to Intervention for Ingestion Health**
 Jun Fang*, Yanuo Zhou*, **Ka I Chan**, Jiajin Li, Zeyi Sun, Zhengnan Li, Zicong Fu, Hongjing Piao, Haodong Xu, Yuntao Wang, Yuanchun Shi
IMWUT 2025 - *ACM Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*
- [P.3] **The Odyssey Journey: Top-Tier Medical Resource Seeking for Specialized Disorder in China**
Ka I Chan, Siying Hu, Yuntao Wang, Xuhai Xu, Zhicong Lu, Yuanchun Shi
CHI 2025 - *ACM CHI Conference on Human Factors in Computing Systems*
- 2024 [P.2] **Beyond digital privacy: Uncovering deeper attitudes toward privacy in cameras among older adults**
 Weiwei Zhang, Jianing Yin, **Ka I Chan**, Tongxin Sun, Tongtong Jin, Jihong Jeung, Jiangtao Gong
IJHCS - *International Journal of Human-Computer Studies*
- [P.1] **Automated Grading Hemifacial Spasm Using Smartphone Cameras**
Ka I Chan*, Bo Hei*, Linghao Meng*, Ruen Liu, Yuntao Wang, Chang Chen, Qingpei Hao, Yuanchun Shi
UIC 2024 - *The 21st IEEE International Conference on Ubiquitous Intelligence and Computing*

Posters & Extended Abstract & Workshop Papers

- 2026 [W.1] **Capturing Chewing and Swallowing with Earables: A Multimodal Dataset Across Contexts**
 Jun Fang*, **Ka I Chan***, Xiyuxing Zhang*, Yuntao Wang, Zihang Zhan, Zhixin Zhao, Yuanchun Shi
CHI 2026 Workshop - *Everyday Wearable for Personalized Health and Well-Being*

Professional Experience

- Summer 2021 **NetEase Games Thunder Fire UX** Hangzhou, China
User Experience Researcher
 Conducted mixed-methods UX research (interviews, surveys, and behavioral data analysis of 100K+ players) for the MMORPG Chinese Ghost Story.

Mentoring Experience

- 2024 **Linghao Meng** (UW GIX Master's) & **Chang Chen** (Tsinghua CS Undergraduate)
 Mentored on hemifacial spasm grading research, co-authored [P.1]

Academic Service

- Reviewer ACM CHI 2025 Late-Breaking Work

Awards, Scholarships, and Grants

- 2026 Precandidate Rackham Graduate Student Research Grant (\$1,500)
Rackham Travel Grant, UMSI Travel Grant
- 2025 UMSI Fellowship
- 2018 – 2025 Tsinghua University Initiative Scientific Research Grant (\$4,700)
Tsinghua Academic Excellence Scholarship (2021, 2023, 2025)
Ministry of Education First-Class Scholarship for Hong Kong, Macau, Overseas Chinese Students (2020, 2024)
Macau Foundation Special Scholarship (2020)
Macau Education Bureau College Scholarship (2018, 2021, 2023–2025)

Skills

- Research Interview, Survey, Focus Group, Participatory Design, Thematic Analysis, Grounded Theory, Experimental Design, Diary Studies
- Design User Experience Design (Figma), Hardware Prototyping (Arduino)
- Programming Front-End Development (HTML/CSS/JavaScript), Android App Development (Android Studio), Statistical Analysis and Machine Learning (Python, R, SPSS, MATLAB), LaTeX