

Eunkyung Jo

Ph.D. Candidate at University of California, Irvine

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<https://eunkyungjo.com/>

I study how to advance technology to enhance collaborative health monitoring, leveraging insights into the complexity of care infrastructure.

Education

2020-2025

University of California, Irvine

Ph.D. in Informatics

Committee: Daniel A. Epstein (Chair), Yunan Chen, Stephen M. Schueller, Young-Ho Kim

2017-2019

Purdue University

M.S. in Computer-Graphics Technology (UX Design Concentration)

Thesis: Investigating the Self-Tracking Use for Mental Wellness of New Parents

Committee: Austin L. Toombs (Chair), Colin Gray, Hwajung Hong

2011-2017

Seoul National University

B.A. in Consumer and Child Studies, B.A. in Information Science & Culture

cum laude (GPA: 3.85 / 4.3)

Awards

2023-2025

Google PhD Fellowship: Full tuition and stipend (\$70,000)

2023

Best Paper Award, CHI 2023 (Top 1% of submissions)

2020

University of California, Irvine Graduate Dean's Recruitment Fellowship (\$5,000)

2017

Gold Medal, ASSETS 2017 Student Research Competition (Undergraduate section)

2017

Seoul National University Student Directed Education Program Research Excellence Award

Conference Publications

2025

[C7] **Understanding Public Agencies' Expectations and Realities of AI-Driven Chatbots for Public Health Monitoring**

[Eunkyung Jo](#), Young-Ho Kim, Sang-Houn Ok, Daniel A. Epstein

Under review at CHI 2025

2024

[C6] **Understanding the Impact of Long-Term Memory on Self-Disclosure with Large Language Model-Driven Chatbots for Public Health Intervention**

[Eunkyung Jo](#), Yuin Jeong, SoHyun Park, Daniel A. Epstein, Young-Ho Kim

Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems

2023

[C5] **Understanding the Benefits and Challenges of Deploying Conversational AI Leveraging Large Language Models for Public Health Intervention**

[Eunkyung Jo](#), Daniel A. Epstein, Hyunhoon Jung, Young-Ho Kim

Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems

Best Paper Award (Top 1% of submissions)

2022

[C4] **Designing Flexible Longitudinal Regimens: Supporting Clinician Planning for Discontinuation of Psychiatric Drugs**

[Eunkyung Jo](#), Myeonghan Ryu, Georgia Kenderova, Samuel So, Bryan Shapiro, Alexandra Papoutsaki,

Daniel A. Epstein

Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems

- 2021 [C3] **Comparing Perspectives around Human and Technology Support for Contact Tracing**
Xi Lu, Tera L. Reynolds, [Eunkyung Jo](#), Hwajung Hong, Xinru Page, Yunan Chen, Daniel A. Epstein
Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems
- 2020 [C2] **Understanding Parenting Stress through Co-Designed Self-Trackers**
[Eunkyung Jo](#), Austin L. Toombs, Colin M. Gray, Hwajung Hong
Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems
- 2019 [C1] **Toward Becoming a Better Self: Understanding Self-Tracking Experiences of Adolescents with Autism Spectrum Disorder Using Custom Trackers**
Sung-In Kim, [Eunkyung Jo](#), Myeonghan Ryu, Inha Cha, Youngho Kim, Heejeong Yoo, Hwajung Hong
Pervasive Health 2019

Journal Publications

- 2024 [J6] **Exploring Patient-Generated Annotations to Digital Clinical Symptom Measures for Patient-Centered Communication**
[Eunkyung Jo](#), Rachael Zehrung, Katherine E. Genuario, Alexandra Papoutsaki, Daniel A. Epstein
Proceedings of the ACM on Human-Computer Interaction 8, CSCW2
- 2023 [J5] **Exploring User Perspectives of and Ethical Experiences with Teletherapy Apps: Qualitative Analysis of User Reviews**
[Eunkyung Jo](#), Whitney-Jocelyn Kouaho, Stephen M. Schueller, Daniel A. Epstein
JMIR Mental Health. Volume 10, 2023
- 2022 [J4] **Understanding Cultural Influence on Perspectives Around Contact Tracing Strategies**
Xi Lu, [Eunkyung Jo](#), Seora Park, Hwajung Hong, Yunan Chen, Daniel A. Epstein
Proceedings of the ACM on Human-Computer Interaction 6, CSCW2
- [J3] **GeniAuti: Toward Data-Driven Interventions to Challenging Behaviors of Autistic Children through Caregivers' Tracking**
[Eunkyung Jo](#), Seora Park, Hyeonseok Bang, Youngeun Hong, Yeni Kim, Jungwon Choi, Bung Nyun Kim, Daniel A. Epstein, Hwajung Hong
Proceedings of the ACM on Human-Computer Interaction 6, CSCW1
- 2020 [J2] **MAMAS: Supporting Parent-Child Mealtime Interactions Using Automated Tracking and Speech Recognition**
[Eunkyung Jo](#), Hyeonseok Bang, Myeonghan Ryu, Eun Jee Sung, Sungmook Leem, Hwajung Hong
Proceedings of the ACM on Human-Computer Interaction 4, CSCW1
- 2019 [J1] **The Social Infrastructure of Co-spaces: Home, Work, and Sociable Places for Digital Nomads**
Ahreum Lee, Austin L. Toombs, Ingrid Erickson, David Nemer, [Eunkyung Jo](#), Yushen Ho, Zhaung Guo
Proceedings of the ACM on Human-Computer Interaction 3, CSCW1

Lightly Reviewed Works (Posters, Workshop Papers)

- 2024 [L8] **Incorporating Multi-Stakeholder Perspectives in Evaluating and Auditing of Health Chatbots Driven by Large Language Models**
[Eunkyung Jo](#), Young-Ho Kim, Yuin Jeong, SoHyun Park, Daniel A. Epstein
CHI 2024 Workshop – Human-Centered Evaluation and Auditing of Language Models
Highlight Presentation (Top 5 Paper Recognition)
- 2023 [L7] **GeniAuti: Towards Data-Driven Interventions to Challenging Behaviors of Autistic Children through Caregivers' Tracking**
[Eunkyung Jo](#), Seora Park, Hyeonseok Bang, Youngeun Hong, Yeni Kim, Jungwon Choi, Bung Nyun Kim, Daniel A. Epstein, Hwajung Hong
CHI 2023 Workshop – Workshop in Interactive Systems for Healthcare

- 2022 [L6] **Examining the Role of Conversational AI in Personal Informatics Systems for Collaborative Health Work and Care**
 Eunkyung Jo, Young-Ho Kim, Yui Jeong, Hyeri Kim, Hyun Jung Park, Daniel A. Epstein
 CHI 2022 Workshop – Grand Challenges in Personal Informatics and AI
- 2020 [L5] **Development of a Mobile Application That Tracks Challenging Behaviors of Children with Autism Spectrum Disorders for Supporting Data-Driven Interventions**
 Hwajung Hong, Eunkyung Jo, Yeni kim, Youngeun Hong
 The International Society for Autism Research (INSAR) 2020 Annual Meeting
- 2019 [L4] **Investigating the Self-Tracking Use for Managing Stress of New Parents**
 Eunkyung Jo
 Doctoral Consortium of Pervasive Health 2019
- 2018 [L3] **A Study for Designing a Cooperative Self-Management Program on a Smartphone for Adolescents with Autism Spectrum Disorder**
 Eunkyung Jo, Sung-In Kim, Myeonghan Ryu, Hwajung Hong, Heejung Yoo
 Grace Hopper Celebration 2018
- 2018 [L2] **A Study for Designing a Cooperative Self-Management Program on a Smartphone for Adolescents with Autism Spectrum Disorder**
 Eunkyung Jo, Sung-In Kim, Myeonghan Ryu, Hwajung Hong, Heejung Yoo
 Office of Interdisciplinary Graduate Programs 2018 Spring Reception, Purdue University
- 2017 [L1] **COSMA: Cooperative Self-Management Tool for Adolescents with Autism**
 Myeonghan Ryu, Eunkyung Jo, Sung-In Kim
 ASSETS 2017: ACM SIGACCESS Conference on Computers and Accessibility
 - Won the **Gold medal** in Student Research Competition (Undergraduate Section)

Research Experiences

- 2020-2025 **Graduate Student Researcher** | University of California, Irvine
 Advisor: Dr. Daniel Epstein
- Examined public agency workers' expectations and realities of AI chatbot adoption for public health monitoring [C7]
 - Designed tools to assist providers in developing longitudinal plans [C4] and to facilitate patient-centered communication for discontinuing antidepressants [J6]
 - Analyzed user reviews of commercial teletherapy apps [J5]
 - Compared people's perceptions toward contact tracing during the COVID-19 era in the US vs. Korea through a survey [C3], [J4]
- Summer 2022, Summer 2023 **Research Intern** | NAVER AI Lab, South Korea
 Mentor: Dr. Young-Ho Kim
- Examined the role of LLM-driven chatbots for social isolation interventions through a multi-stakeholder interview study [C6], [L4]
 - Examined how long-term memory integration impacts people's interactions with LLM-driven chatbots in public health intervention through a mixed-method study [C5], [L8]
- 2019-2020 **Researcher** | Seoul National University & National Center for Mental Health in Korea
 Supervisors: Dr. Hwajung Hong & Yeni Kim, MD, Ph.D.
- Ran field deployment of a system kit to improve children's eating behaviors in family mealtime contexts [J2]
 - Ran field deployment of a mobile application for caregivers to track challenging behaviors of children with autism [J3], [L7]

- 2017-2019** **Research Intern** | UNIST & Seoul National University
 Advisor: Dr. Hwajung Hong
- Understanding custom self-tracking experiences of adolescents with autism [C1], [L5]
 - Designed a smartwatch app to help children with autism manage their daily routines [L1-3]
- 2018-2019** **Graduate Research Assistant** | Purdue University
 Thesis Advisor: Dr. Austin Toombs
- Ran workshops with new parents to co-design custom self-trackers for managing parenting stress [C2], [L4]
- 2018** **Graduate Research Assistant** | Purdue University
- Developed message protocols for multiple VR devices using VRPN, collaborating with *Korea Institute of Machinery and Materials (KIMM)*
- 2016** **Purdue University & IITP Capstone Program**
- Developed an educational game using Unity for VR devices

Teaching Experiences

- 2021** **Graduate Teaching Assistant** | University of California, Irvine
 INF 153: Computer-Supported Cooperative Work (Spring 2021, Prof. Yunan Chen)
- Graded essays and gave feedback on final project outcomes
- INF 133: User Interaction Software (Winter 2021, Prof. Daniel Epstein)
- Ran lab sessions and graded assignments (Covered JavaScript, TypeScript, Angular, and Ionic)
- 2017** **Graduate Teaching Assistant** | Purdue University
 CIT 255: Introduction to Object-Oriented Programming (Fall 2017, Prof. Eric Matson)
- Ran lab sessions and graded assignments (Used C#)

Academic Mentorship

- 2022** Allison Liu, University of California, Irvine (Undergraduate), Fall 2022
- 2019-2020** Seora Park, Seoul National University (Undergraduate), Spring 2020 – Fall 2020

Invited Talks

- 2024** *Advancing Long-Term Health Monitoring Amidst Infrastructural Constraints*
 Cornell Information Science PhD Seminar (March 2024)
- 2023** *Understanding Human Infrastructures of Technology for Mental Health and Wellbeing*
 HAI Lab, Seoul National University of Science and Technology (July 2023)
- 2021** *Data-Driven Mental Health Care in Interpersonal and Infrastructural Contexts*
 HCI@KAIST Seminar, KAIST (Dec 2021)

Service

Have reviewed 46 submissions in total, including full papers and posters, as of September 2024
6 special recognitions for outstanding reviews for CHI and CSCW

- 2023-Present** **Program Committee**
 ACM CHI Late-Breaking Work (2024)
 IEEE International Conference on Healthcare Informatics (ICHI) (2023)
- 2020-Present** **Peer Review**
 ACM CHI, CSCW, DIS, IMWUT (2020-2024)
npj Mental Health Research (2024)
 JAMIA (Journal of the American Medical Informatics Association) (2023)

2022-2023

Student Volunteering

CHI 2023 Symposium: Workgroup on Interactive Systems in Healthcare (WISH) - *Web Chair*
CHI 2022 - *Student Volunteer*

Selected Press

My research has been featured in over 110 articles from South Korean media outlets. Below are a few examples from reputable sources, with titles translated from Korean.

2024

“AI Monitors Older Adults Living Alone... NAVER’s CareCall Adopted by Over Half of Municipalities”
Maeil Business (September 2024)

<https://www.mk.co.kr/news/it/11110195>

2023

“NAVER CLOUD Delivers Top Research Achievements at Leading Global AI Conferences”
AI Times (June 2023)

<https://www.aitimes.kr/news/articleView.html?idxno=28242>

“AI Detects When Elderly People Skip Meals”

Hankyung (April 2023)

<https://www.hankyung.com/it/article/202304236401i>

“NAVER’s CareCall Wins Best Paper Award at International HCI Conference”

Digital Chosun (April 2023)

https://digitalchosun.dizzo.com/site/data/html_dir/2023/04/05/2023040580095.html

“NAVER Demonstrates Strong AI Research Capabilities”

Kyunghyang (April 2023)

<https://m.khan.co.kr/economy/industry-trade/article/202304162203005#c2b>