

YOUNGJI KOH

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🔗 github.com/youngji-koh

EDUCATION

Ph.D in Computer Science

Sep. 2021 – Present

KAIST, Daejeon, Republic of Korea

Interactive Computing Laboratory (Advisor: Dr. Uichin Lee)

M.S. in Computer Science

Sep. 2019 – Aug. 2021

KAIST, Daejeon, Republic of Korea

Software Architecture Laboratory (Advisor: Dr. Sungwon Kang)

B.S. in Computer Science and Engineering

Mar. 2015 – Aug. 2019

Ewha Womans University, Seoul, Republic of Korea

GPA: 4.02/4.30 (Summa Cum Laude)

RESEARCH INTEREST

Digital Healthcare, Human-Centered Computing, and Multimodal Sensing for Mental Health and Wellbeing

RESEARCH EXPERIENCE

Undergraduate Research Intern

May 2018 – May 2019

Human-Computer Interaction Laboratory, Ewha Womans University (Advisor: Dr. Uran Oh)

- Build a touchscreen-based mobile application as a prototype focusing on 2D paintings which plays object-level verbal descriptions upon users' touch to enable people with visual impairments to explore and understand various artworks independently
- Design a mobile application for conflict management between lovers on mobile messenger

FUNDED RESERACH PROJECTS

Early Prediction of Complex Diseases and Telemedicine Expansion

Jun. 2025 – Dec. 2025

Institute for ICT Planning & Evaluation (IITP), Project Manager

- Developed a comorbidity prediction and management framework leveraging LLM-based patient digital twins and multi-clinician agents

Prediction and Management of Emotion Workers' Mental Health Risks

Apr. 2022 – Dec. 2025

Institute for ICT Planning & Evaluation (IITP), Research Assistant

- Authored a survey paper on stress sensing and intervention technologies

Proactive Mental Health Prediction and Management in the Smart Home

Sep. 2021 – Oct. 2024

LG Electronics, Project Manager

- Led in-the-wild collection of mobile, wearable, and home IoT data, designed a personal informatics system, and analyzed associations with mental health outcomes
- Built predictive models to evaluate the efficacy of multimodal data in detecting depression and anxiety
- Developed a multimodal self-reporting smart speaker for in-home mental health monitoring (featured in [News](#))
- Collaborated on the development and evaluation of a CBT-based counseling robot that provided micro-interventions in a counseling center environment

Research on Success and Failure Cases of MSA Architectures

Sep. 2020 – Feb. 2021

Hyundai Card, Research Assistant

Journal & Conference

[C6] Home IoT for Self-tracking Emotional Wellbeing: Behavioral Patterns, Self-Reflection, and Privacy Concerns

Youngji Koh, Chanhee Lee, Eunki Joung, Hyunsoo Lee, Uichin Lee

In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)* (Espoo, Finland, Oct 14-16, 2025). UbiComp'25. ACM. (top conference)

[C5] 'In That Small Space with Just the Two of Us': User Experiences with Cumpa in a Robotic Counseling Center

Chanhee Lee, Eunki Joung, **Youngji Koh**, Esther Kim, Sohwi Son, Sunjung Kwon, and Uichin Lee

In *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)* (Bergen, Norway, Oct 18-22, 2025). CSCW'25. ACM. (top conference)

[C4] Exploring Context-Aware Mental Health Self-Tracking Using Multimodal Smart Speakers in Home Environments

Jieun Lim*, **Youngji Koh***, Auk Kim, Uichin Lee (*: equal contribution)

In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)* (Hawaii, USA, May 11-16, 2024), CHI '24. ACM. (top conference)

[C3] Interrupting for Microlearning: Understanding Perceptions and Interruptibility of Proactive Conversational Microlearning Services

Minyeong Kim, Jiwook Lee, **Youngji Koh**, Chanhee Lee, Uichin Lee, Auk Kim

In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)* (Hawaii, USA, May 11-16, 2024), CHI '24. ACM. (top conference)

[J1] Deep Learning-based Bug Report Summarization Using Sentence Significance Factors

Youngji Koh, Sungwon Kang, Seonah Lee

Applied Sciences 2022

[C2] Bug Report Summarization using Believability Score and Text Ranking

Youngji Koh, Sungwon Kang, Seonah Lee

International Conference on Artificial Intelligence in Information and Communication (ICAIIIC 2021). IEEE.

[C1] Deep learning based bug report summarization using sentence assessment score

Youngji Koh, Sungwon Kang

Korea Software Congress (KSC 2020) *Best Paper Award*

Poster & Workshop

[W1] Data Visualization for Mental Health Monitoring in Smart Home Environment: A Case Study

Youngji Koh, Chanhee Lee, Yunhee Ku, Uichin Lee

IEEE VIS 2023 Workshop on Visual Analytics in Healthcare

[P4] LV-Linker: Supporting Fine-grained User Interaction Analyses by Linking Smartphone Log and Recorded Video Data

Hansoo Lee, Sangwook Lee, **Youngji Koh**, Uichin Lee

ACM Symposium on User Interface Software and Technology (UIST 2022)

[P3] Supporting Object-level Exploration of Artworks by Touch for People with Visual Impairments

Nahyun Kwon, **Young-Ji Koh**, Uran Oh

ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019)

[P2] Analysis of Conflicts in Romantic Relationships on Mobile Messengers

Young-Ji Koh, Hyunggu Jung, Uran Oh

HCI Korea 2019

[P1] **Real-time Fire Evacuation System based on Indoor Location Tracking and Route Optimization**

Young-Ji Koh, Naeun Go, ChaeYoon Kim, SooHee Lee, Sangsoo Park

Korea Software Congress (KSC 2018) *Student Paper Competition, Merit Award*

HONORS AND AWARDS

Special Recognition for Outstanding Reviews

ACM CHI

Dec 2024

Ewha Womans University Scholarship

Merit-based scholarship

Spring 2018

TEACHING EXPERIENCE

Teaching Assistant, KAIST

CS492 Data Visualization

Fall 2021, Spring 2023

Teaching Assistant, KAIST

CS204 Discrete Mathematics

Spring 2020

COMMUNITY SERVICE

HCI@KAIST

Student Steering Committee

2024, 2025

ACADEMIC SERVICE

Reviewer

CHI 2025

UbiComp/ISWC Notes and Briefs 2025

IEEE Transactions on Computational Social Systems 2025