

Taewan Kim PhD Student

Department of Industrial Design, KAIST

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Research Interests

Human-computer Interaction (HCI), User Experience (UX) Research, Human-Ai interaction, Social computing, Mental health

Education

- Sep. 2021 - Present **KAIST**, Department of Industrial Design
Ph.D. student
Adviser: Prof. Hwajung Hong
- Sep. 2018 - Aug. 2021 **Seoul National University**, Interdisciplinary Program in Cognitive Science
Ph.D. Candidate, All but dissertation
Adviser: Prof. Hwajung Hong
- Mar. 2016 - Feb. 2018 **Ulsan National Institute of Science and Technology**, Graduate School of Creative Design Engineering
M.E. in Creative Design Engineering
Dissertation: Helping Friends Suffering Mental Health Issues: Challenges and Opportunities for Social support on Social Media from the Peer's Point of View
Adviser: Prof. Hwajung Hong
- Sep. 2011 - Feb. 2016 **Handong University**, Department of Industrial Design
B.S in Product Design (Cum laude)

Experiences

- Sep. 2019 - Dec. 2019 **Undergraduate Teaching Assistant** | Seoul National University
2114.409 Creative Research Practice
- Apr. 2018 - Mar. 2019 **Assistant Researcher** | Institute of Communication Research, Seoul National University

Publications

- Conference paper **Taewan Kim**, Mintra Ruensuk, and Hwajung Hong. "In Helping a Vulnerable Bot, You Help Yourself: Designing a Social Bot as a Care-Receiver to Promote Mental Health and Reduce Stigma." *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. 2020.
- Journal article **Taewan Kim**, and Hwajung Hong. "Understanding University Students' Experiences, Perceptions, and Attitudes Toward Peers Displaying Mental Health-related Problems on Social Network Sites: Online Survey and Interview Study" *Journal of Medical Internet Research - Mental Health* (2021)
- Taewan Kim**, James A. Self, and Hwajung Hong. "Design Constraints and Their Influence upon Design Outcome." *Archives of Design Research* 31.4 (2018): 23-41.
- Poster / Workshop Youjin Hwang, **Taewan Kim**, Junhan Kim, Joonhwan Lee, and Hwajung Hong. "Leveraging challenges of an algorithm-based symptom checker on user trust through explainable AI" *ACM CHI2021 Workshop on Realizing AI in Healthcare: Challenges Appearing in the Wild*. 2021
- Taewan Kim**, Youjin Hwang, Junhan Kim, Joonhwan Lee, and Hwajung Hong. "질병의 자가 진단을 위한 알고리즘 기반 증상 확인 애플리케이션의 사용자 경험에 관한 탐색적 연구 (An exploratory study on the algorithm user experience of a symptom checker application for self-diagnosis)" *The Proceedings of HCI KOREA 2021*. 2021

Taewan Kim, and Hwajung Hong. "Studying Students Experiencing Mental Health Problems" *ACM CSCW 2018 Workshop on Conducting Research with Stigmatized Populations*. 2018

Taewan Kim, Young-Woo Park, and Hwajung Hong. "Calm Station: An Interactive Perpetual Desk Object that Reduces Digital Distractions." *Proceedings of the 2017 ACM Conference Companion Publication on Designing Interactive Systems*. 2017.

Kang, Mingu, **Taewan Kim**, Ahn, Junghwan, and Kim, Youngjae. "FamCom: A Communication Service Enhancing Conversation Quality Between Elders Residing in Care Hospital and Their Family Member." *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems*. 2015.

Awards

2015	Student Design Competition, Top4 ACM CHI 2015
2015	UNIST Creative Design and Engineering Competition, Silver UNIST
2014	Undergraduate Research Competition, Second Place Handong Univ.
2014	Samsung Tomorrow Solution Award, Excellence award SAMSUNG

Patents

Cardiopulmonary Resuscitation Plate for a First-aid Treatment
Korea Patent No. 10-1628073

AR simulator
Korea Design Protection No. 30-0938066

Skills

User Research, Qualitative Analysis
Interviewing, Conducting surveys, Field research, Contextual Inquiry
Grounded theory, Thematic analysis

UX/UI Design, Fabrication
Adobe Illustrator, Photoshop, Premiere, Sketch, Figma
3D modeling (SIEMENS NX, Rhino), AutoCAD, 3D Printing, Laser cutting, Arduino

Computer Programming
Python, R, Scikit-learn, Tensorflow

Academic Societies and Services

Peer Reviewing
ACM TEI 2018 Paper
IASDR 2021 Paper