

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 <i>Adviser:</i> Prof. Hwajung Hong
Sep. 2018 - Aug. 2021	Seoul National University , Interdisciplinary Program in Cognitive Science Ph.D. Candidate, All but dissertation <i>Adviser:</i> 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 <i>Adviser:</i> 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

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" <i>Journal of Medical Internet Research - Mental Health</i> (2021)
	Taewan Kim , James A. Self, and Hwajung Hong. "Design Constraints and Their Influence upon Design Outcome." <i>Archives of Design Research</i> 31.4 (2018): 23-41.
Conference paper	Taewan Kim , Haesoo Kim, Hayeon Lee, Hwarang Goh, Shakhboz Abdigapporov, Mingon Jeong, Hyunsung Cho, Kyungsik Han, Youngtae Noh, Sung-Ju Lee and Hwajung Hong. "Prediction for Retrospection: Integrating Algorithmic Stress Prediction into Personal Informatics Systems for College Students' Mental Health" <i>Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems</i> . 2022. (Conditionally accepted)
	Mintra Ruensuk, Taewan Kim , Hwajung Hong, and Ian Oakley. "Sad or just jealous? Using Experience Sampling to Understand and Detect Negative Affective Experiences on Instagram" <i>Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems</i> . 2022. (Conditionally accepted)

Jennifer G. Kim, **Taewan Kim**, Sungin Kim, Soyeon Jang, Stephanie Lee, Heejung Yoo, Kyungsik Han, and Hwajung Hong. "The Workplace Playbook VR: Exploring the Design Space of Virtual Reality to Foster Understanding and Support of Autistic People in the Workplace" *Proceedings of the Proc. ACM Hum.-Comput. Interact. CSCW 2022 (forthcoming)*

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.

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