

## Jiwan Kim (김지완)

HCI (Mobile sensing, Digital healthcare) / WIT-LAB / KAIST

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### EDUCATION

- 2024.02 – **Korea Advanced Institute of Science and Technology (KAIST)**, Korea  
*Ph.D. in school of Electrical Engineering, WIT Lab, advisor: Ian Oakley*  
GPA: 4.0/4.3
- 2021.03 – 2024.02. **Ulsan National Institute of Science and Technology (UNIST)**, Korea  
*Master in school of Design, Interactions Lab, advisor: Ian Oakley*  
GPA: 4.15/4.3
- 2013.03 – 2021.02. **Ulsan National Institute of Science and Technology (UNIST)**, Korea  
*B.S. in school of Human Factor Engineering & Computer engineering*  
GPA: 4.07/4.3 | Major: 4.13/4.3

### RESEARCH EXPERIENCE

- 2023.11 – 2024.02 **Hyper-Reality Metaverse Research Lab at ETRI**, Daejeon, Korea  
Research Assistant (Dynamic Pose Estimation on Mobile Device)
- 2023.02 – 2023.08 **School of Computing and Information Systems, University of Melbourne**, Melbourne, Australia (Advisor: Vassilis Kostakos)  
Visiting Researcher (Feb-May: in-person, May-Aug: remote)
- 2019.09 - 2021.02 **Interactions Lab**, Dept. of Human Factor Engineering UNIST, Ulsan, Korea  
Research Intern / Advisor: Ian Oakley
- 2018.03 - 2018.07 **IVADER Lab**, Dept. of Human Factor Engineering UNIST, Ulsan, Korea  
Data research Intern / Advisor: Sungahn Ko  
Teaching Assistant in Object oriented programming class

### PUBLICATION

- 2024 (IJHCS) **Kim, J.**, Lee, D., Han, M., Kim, J., Kostakos, V., & Oakley, I. (2024). Unpacking Instagram use: The impact of upward social comparisons on usage patterns and affective experiences in the wild. *International Journal of Human-Computer Studies*, 103323.  
DOI: <https://doi.org/10.1016/j.ijhcs.2024.103323>
- 2022 (ACM CHI) **Jiwan Kim**, and Ian Oakley. 2022. SonarID: Using Sonar to Identify Fingers on a Smartwatch. Proceedings of the 2022 CHI conference on Human Factors in Computing systems.  
DOI: <https://doi.org/10.1145/3491102.3501935>

2021 (ACM CHI) Doyoung Lee, **Jiwan Kim**, and Ian Oakley. 2021. FingerText: Exploring and Optimizing Performance for Wearable, Mobile and One-handed Typing. Proceedings of the 2021 CHI conference on Human Factors in Computing systems.  
DOI: <https://doi.org/10.1145/3411764.3445106>

## **POSTER / DEMO PAPERS**

2024 (ACM UIST) **Jiwan Kim**, Hohurn Jung, and Ian Oakley. 2024. VibraHand: In-Hand Superpower Enabling Spying, Precognition, and Telekinesis. In The Adjunct Publication of the 37th Annual ACM Symposium on User Interface Software and Technology (UIST '24 Adjunct).

\* **Best People's Choice Award**,

DOI: <https://doi.org/10.1145/3672539.3686728>

2023 (UbiComp) **Jiwan Kim**, Jongjin Park, and Ian Oakley. 2023. SonarAuth: Using Around Device Sensing to Improve Smartwatch Behavioral Biometrics (UbiComp-ISWC '23 Poster)

DOI: <https://doi.org/10.1145/3594739.3610696>

2022 (ACM UIST) **Jiwan Kim** and Hyunjae Gil. 2022. Top-Levi: Multi-User Interactive System Using Acoustic Levitation. In The Adjunct Publication of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22 Adjunct).

\* **Best Jury Award (\$1000), Honorable Mention for People's Choice (\$500)**

DOI: <https://doi.org/10.1145/3526114.3561347>

## **WORKSHOP PAPERS**

2024 (UbiComp) Yeji Park, **Jiwan Kim**, and Ian Oakley. 2024. The Impact of Gaze and Hand Gesture Complexity on Gaze-Pinch Interaction Performances. In Companion of the 2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp Companion '24),

DOI: <https://doi.org/10.1145/3675094.3678990>

2023 (IEEE BigComp) **Jiwan Kim**, Doyoung Lee, Jaeho Kim, and Ian Oakley. 2023. Can Eye Gaze Improve Emotional State Detection on Off the Shelf Smart Devices. In IEEE BigComp 2023 Workshop on "IoT Big Data for Health and Wellbeing".

DOI: <https://doi.org/10.1109/BigComp57234.2023.00090>

2022 (ACM CHI) **Jiwan Kim** and Ian Oakley. 2022. New Sensors and Features for Digital phenotyping on Off the Shelf Smart Devices. In CHI 2022 Workshop on "The Future of Emotion in Human-Computer Interaction".

Link: [PDF](#)

## **ACADEMIC SERVICE**

Organizer UbiComp-ISWC 2024 SV Co-chair

Review CHI (24, 25), DIS (24), IMWUT (24), ISS (23, 24), TEI (24), CHI-LBW (24), MobileHCI LBW (23)

SV CHI 2022

## **RECOGNITION**

2024. 10	<b>Best People's Choice Award</b> VibraHand: In-Hand Superpower Enabling Spying, Precognition, and Telekinesis. Awarded by 2024 UIST Student Innovation Contest.
2024.04	<b>Presidential Science Scholarship for Graduate Student</b> 대학원 대통령 과학장학생 (Acc.Rate: 4%, \$96,000 for 4 yrs) Awarded by the President of Korea.
2022. 11	<b>Best Jury Award, Honorable Mention for People's Choice</b> Top-Levi: Multi-User Interactive System Using Acoustic Levitation. Awarded by 2022 UIST Student Innovation Contest.
2021. 05	<b>Finer Winner, Junction-X-Seoul 2021 (3,000,000 KRW)</b> One of the biggest global Hackathon in Korea
2021. 02	<b>Minister's Award (Top of the school), UNIST commencement ceremony</b> Awarded by the Minister of Science, ICT and Future Planning
2019. 11	<b>3<sup>rd</sup> prize</b> Uni-Code programming contest, HEXA & NAVER
2018. 12	<b>Award for devotion, UNIST, Korea</b> Contribution to school development by student activity(student president)
2017. 12	<b>Best prize, Capstone Design Award</b> Awarded by Ergonomics society of Korea, Korea
2017. 05	<b>Best prize, 9<sup>th</sup> Design Contest for other 90%,</b> Awarded by Korean ministry of science, ICT, Korea
2016-2019	<b>Academic Achievement Award</b> 2016 Spring(4.06/4.3), 2016 Fall(4.22/4.3) 2017 Spring(4.12/4.3), 2017 Fall(3.94/4.3) 2019 Fall(4.20/4.3)

## **ACTIVITIES**

2022.12	2022 Korea Science Technology Festival(대한민국 과학기술대전), <b>Demo work</b> Breathing Detection System Using Sonar on Off-the-Shelf Smartphone
2020.01 – 2023.02	<b>President(2021.02-), Executive board member(2020.01-2021.02),</b> DINO(Making club; using Arduino) @ UNIST
2020.03 – 2020.10	Launch <b>COVID-19 Tracking Map for Ulsan Region</b> , Template for Other Region Jiwan Kim(Developer, Leader), Daeseong Jeon(Developer), Taeyoon Kim(Design) <a href="https://news.unist.ac.kr/unist-students-launch-covid-19-tracking-map-for-ulsan-region/">https://news.unist.ac.kr/unist-students-launch-covid-19-tracking-map-for-ulsan-region/</a>
2019.03 - 2019.08	<b>Grill &amp; Fry Chef</b> , The Chicken Shed, Cairns, Australia

- 2018.03 - 2019.03 **Student President**, UNIST, Ulsan, Korea
- 2016 - 2018 **Director**, Humans of UNIST, Ulsan, Korea  
Telling UNIST people's little stories in SNS and published 2 books.  
[www.facebook.com/humansofunist](http://www.facebook.com/humansofunist)
- 2017.07-08 **World Friends ICT Volunteering**, Regent University, Accra, Ghana  
Teaching web programming/ Android programming / Culture exchange
- 2016.07-08 **World Friends ICT Volunteering**, DEOKE Foundation School, Accra, Ghana  
Teaching MS Office program / Culture exchange
- 2014.01 – 2016.01 **Military service** as a graphic designer at the Republic of Korea Air Force