

## Jiwan Kim (김지완)

Human Computer Interaction / Interaction lab / UNIST  
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Portfolio: <http://wanzi.info>

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### EDUCATION

- 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*
- 2021.03 – **Ulsan National Institute of Science and Technology (UNIST)**, Korea  
*MSc-PhD in school of design, Interactions Lab, advisor: Ian Oakley*

### RESEARCH EXPERIENCE

- 2021.03 - **Interactions Lab**, Dept. of Design UNIST, Ulsan, Korea  
*MSc-PhD combined / Advisor: Ian Oakley*  
Research Interest: Sonar Sensing, Digital Phenotyping
- 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

- 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

- 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**

- 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”.
- 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](#)

## **MENTORINGS**

- 2022 Jongjin Park, Gyuri Moon, Soomin Park (Undergraduate Research Interns) Advising “How do you feel in playing VR game?” for the BTS project(Industry-friendly research project,), and got Bronze Prize at U-Challenge Festival 2022.

## **RECOGNITION**

2022. 11 **Best Jury Award, Honorable Mention for People's Choice**  
Top-Levi: Multi-User Interactive System Using Acoustic Levitation.  
Awarded by 2022 UIST Student Innovation Contest.
2021. 05 **Finer Winner, Junction-X-Seoul 2021 (3,000,000 KRW)**  
One of the biggest global Hackathon in Korea
2021. 02 **Minister’s Award (Top of the school), UNIST commencement ceremony**  
Awarded by the Minister of Science, ICT and Future Planning
2019. 11 **3<sup>rd</sup> prize** Uni-Code programming contest, HEXA & NAVER
2018. 12 **Award for devotion, UNIST, Korea**  
Contribution to school development by student activity(student president)
2017. 12 **Best prize, Capstone Design Award**  
Awarded by Ergonomics society of Korea, Korea
2017. 05 **Best prize, 9<sup>th</sup> Design Contest for other 90%,**  
Awarded by Korean ministry of science, ICT, Korea
- 2016-2019 **Academic Achievement Award**  
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

- 2023.02      **Present a workshop paper**, ‘Can Eye Gaze Improve Emotional State Detection on Off the Shelf Smart Devices’, at IEEE BigComp 2023 ([https://imcl-kentech.github.io/bigcomp\\_workshop/](https://imcl-kentech.github.io/bigcomp_workshop/))
- 2022.12      2022 Korea Science Technology Festival(대한민국 과학기술대전), **Demo work**  
Breathing Detection System Using Sonar on Off-the-Shelf Smartphone
- 2022.05      **ACM CHI 2022 Student Volunteer** (In-person)
- 2022.04      **Present a position paper**, ‘New Sensors and Features for Digital phenotyping on Off the Shelf Smart Devices’, at EMOCHI’22 (cis.unimelb.edu.au/hci/emotion-workshop)  
Link: <http://wanzi.info/blog/9/>
- 2020.01 – 2023.02      **President(2021.02-), Executive board member(2020.01-2021.02),**  
DINO(Making club; using Arduino) @ UNIST
- 2020.03 – 2020.10      Launch **COVID-19 Tracking Map for Ulsan Region**, Template for Other Region  
Jiwan Kim(Developer, Leader), Daeseong Jeon(Developer), Taeyoon Kim(Design)  
<https://news.unist.ac.kr/unist-students-launch-covid-19-tracking-map-for-ulsan-region/>
- 2019.03 - 2019.08      **Grill & Fry Chef**, 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 graphic designer at Republic of Korea Air Force