

Daehwa Kim

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EDUCATION

KAIST, School of Computing

Mar 2019 – Feb 2021 (Expected)

- M.S. student at Human-Computer Interaction Lab
 - Thesis: “OddEyeCam: Sensing Technique for Body-Centric Peephole Interaction Using WFoV RGB and N FoV Depth Cameras” (To be)
 - Adviser: Prof. Geehyuk Lee
 - Focus: Sensing Techniques

UNIST, Electrical and Computer Engineering

Mar 2015 – Feb 2019

- B.S. in Computer Science and Engineering (Major)
B.S. in Electrical Engineering (Minor)
 - Thesis: “VRone: 3D Force Feedback System in VR Using a Commercial Drone”
 - Entered with top honors.
- Summer session program, ual: (University of the Arts London), London, UK

Jul 2018

Gyeongsan Science High School, High school diploma

Mar 2013 – Feb 2015

- Early graduated with UNIST President’s Award.
- Club Activity: Physics Research Team, English Journal Club

PUBLICATIONS

CONFERENCES

- [1] [Daehwa Kim](#), Keunwoo Park, and Geehyuk Lee, “OddEyeCam: A Sensing Technique for Body-Centric Peephole Interaction Using WFoV RGB and N FoV Depth Cameras” in *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology*, Minnesota, Minneapolis, USA, Oct 2020. (full paper)
- [2] Keunwoo Park, [Daehwa Kim](#), Seongkook Heo, and Geehyuk Lee, “MagTouch: Robust Finger Identification for a Smartwatch Using a Magnet Ring and a Built-in Magnetometer” in *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*, Honolulu, Hawaii, USA, Apr 2020. (full paper)

SUBMITTED

- [1] [Daehwa Kim](#), Keunwoo Park, and Geehyuk Lee, “AtaTouch: Robust Finger Pinch Detection for a VR controller Using RF Return-Loss” in *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, Yokohama, Japan. (full paper)
- [2] Hui-Shyong Yeo, Erwin Wu, [Daehwa Kim](#), Juyoung Lee, Hyung-il Kim, Luna Takagi, Woontack Woo, Hideki Koike, Aaron J Quigley, “OmniSense: Exploring Novel Input Sensing and Interaction Techniques on Mobile Device with Omni-Directional Camera” in *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, Yokohama, Japan. (full paper)

DEMOS

- [1] [Daehwa Kim](#), Keunwoo Park, and Geehyuk Lee, “OddEyeCam: A Sensing Technique for Body-Centric Peephole Interaction Using WFoV RGB and N FoV Depth Cameras” in *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology*, Minnesota, Minneapolis, USA, Oct 2020. (fast track)

RESEARCH EXPERIENCE

HCI Lab, KAIST

- Undergraduate Research Student, School of Computing
 - Project: PCB design for a hand gesture sensing wristband.
 - Supervisors: Prof. Geehyuk Lee
 - Focus: PCB design

Mar 2018 – Jun 2018

Hyper-connected Communication Research Laboratory, ETRI

- Research Intern, IoT Research Division
 - Project: Building IoT lighting system controlled by user’s voice
 - Supervisors: Dr Jungsik Sung and Daeho Kim
 - Focus: IoT network system, Natural language processing

Jan 2018 – Mar 2018

Finger joystick interaction	Feb 2017 – Nov 2017
<ul style="list-style-type: none"> ▪ Interaction technique to support finger's directional input using capacitive image of a smartwatch's touchscreen ▪ Skills: Machine learning, Android programming, Reverse engineering 	
Poem a moment	Mar 2017 – Jun 2017
<ul style="list-style-type: none"> ▪ An android application that shows Yoon Dongju's poems on the wallpaper ▪ Available on Google Play store (download 1000+) ▪ Skills: Android programming 	
TUIT Android Lecture	Jun 2016 – Sep 2016
<ul style="list-style-type: none"> ▪ Android development lecture provided to TUIT university students ▪ Skills: Android programming, Object-oriented programming 	
Mr.Bill	Jun 2016 – Jul 2016
<ul style="list-style-type: none"> ▪ Algorithm and system to provide optimal Dutch pay way ▪ Available on Google Play store (download 500+) ▪ Skills: Android programming, Graph theory 	

[CV compiled on 2020-10-28 for Acme Corporation]