

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 W FoV RGB and N FoV Depth Cameras” in *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology*, Virtual Event, 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, and Aaron J Quigley. “OmniSense: Exploring Novel Input Sensing and Interaction Techniques on Mobile Device with OmniDirectional 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 W FoV RGB and N FoV Depth Cameras” in *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology*, Virtual Event, 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

- Interaction technique to support finger's directional input using capacitive image of a smartwatch's touchscreen
- Skills: Machine learning, Android programming

Poem a moment

Mar 2017 – Jun 2017

- 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

- Android development lecture provided to TUIT university students
- Skills: Android programming, Object-oriented programming

Mr.Bill

Jun 2016 – Jul 2016

- Algorithm and system to provide optimal Dutch pay way
- Available on Google Play store (download 500+)
- Skills: Android programming, Graph theory

[CV compiled on 2020-11-01 for Acme Corporation]