

# Hyein Lee

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## Education

**KAIST** Master of Science, *GPA: 3.9/4.3* Sep 2018 - Aug 2020  
MAKinteract Lab, Industrial Design

**KAIST** Bachelor of Science, *GPA: 3.74/4.3* Mar 2013 - Feb 2018  
Industrial Design, *Cum Laude*

**École Centrale Paris (now: Centrale Supélec)** Autumn 2015  
Exchange Student, France

**Korea Science Academy of KAIST (KSA)** Feb 2010 - Feb 2013

## Experience

**MAKinteract Lab, KAIST** Aug 2018 - Aug 2020  
**Research Assistant, Advisor: Andrea Bianchi**  
Research on a Mask-shaped Wearable for enhancing clarity of communication and Physical Computing tools for makers.

**Hyundai NGV + MAKinteract Lab** Aug 2019 - Jan 2020  
**Project Manager and UX Researcher,**  
Proposed and led the project, Road Characteristics Recognition Using Acoustic Feedback and Machine Learning for Adaptive Driving.

**Color Lab, KAIST** Jun 2019 - Sep 2019  
**Research Assistant, Advisor: Hyeon-Jeong Suk**  
Designed user scenarios for an adaptive display for inactive TV based on idea workshop, funded by Samsung Electronics.

**Wonder Lab, KAIST** Jul 2017 - Dec 2017  
**Research Intern, Advisor: Woohun Lee**  
Research on a Wearable Fingertip-sized tactile device and on Grip-sensing Controller for VR Game with graduate students.

**Standard Energy** Jun 2016 - Aug 2016  
**Product Design Intern**  
Designed exterior of redox flow battery for factory usage.

**Design Management Lab, KAIST** Mar 2012 - Dec 2012  
**Student Researcher, Advisor: Kyungwon Chung**  
Research on a Service Design Strategy of Banking Delivery Channels based on Analysis of Service User's Behavior.

## Academic Experience

**Graphic Design, Teaching Assistant** Spring 2020  
Professor: Deborah Kim, KAIST

**ACM ISS 2019, Student Volunteer** Nov 2019  
Videographer, Registration

**Software Prototyping, Teaching Assistant** Spring 2019  
Professor: Andrea Bianchi, KAIST

## Skill

### UX Research (Quantitative and Qualitative)

*Data Analytics* SPSS, Machine Learning

*Design Methodologies* Affinity Diagram, Focus Group Interview, Ethnography, Participatory Design, Idea Workshop

### Prototyping

Arduino, Processing, Python, Autodesk Inventor, Rhino

### Graphic Design

Keyshot, Adobe Photoshop, Illustrator, After Effect, Premiere, Indesign

## Publication

### Conference

**MAScreen: Augmenting Speech with Visual Cues of Lip Motions, Facial Expressions and Text Using a Wearable Display** Dec 2020  
Hyein Lee, Yoonji Kim, Andrea Bianchi

*Presenter, SIGGRAPH ASIA 2020 Emerging Technologies, Virtual*

**SchemaBoard: Supporting Correct Assembly of Schematic Circuits using Dynamic In-Situ Visualization** Oct 2020  
Yoonji Kim, Hyein Lee, Ramkrishna Prasad, Seungwoo Je, Youngkyung Choi, Daniel Ashbrook, Ian Oakley, Andrea Bianchi  
*UIST 2020, Virtual*

**VirtualComponent: a Mixed-Reality Tool for Designing and Tuning Breadboarded Circuits** May 2019  
Yoonji Kim, Youngkyung Choi, Hyein Lee, Geehyuk Lee, and Andrea Bianchi  
*Presenter, CHI 2019, Glasgow, UK*

**Hapcube: A Wearable Tactile Device to Provide Tangential and Normal Pseudo-Force Feedback on a Fingertip** Apr 2018  
Hwan Kim, HyeonBeom Yi, Hyein Lee, Woohun Lee  
*Honorable Methion Award, CHI 2018, Montreal, Canada*

### Journal

**Design Attributes for a More Eco-friendly Takeout Cup Using Conjoint Analysis** May 2019  
Dasol Hong, Hyein Lee, Yuchun Yan, Hyeon-Jeong Suk  
*Archives of Design Research, Vol.32(2)*

## Press

**Translate the text spoken when wearing the mask** Nov 26, 2020  
**, ITmedia NEWS**  
<https://www.itmedia.co.jp/news/articles/2011/26/news058.html>

**The augmented reality breadboard of the future** May 27, 2018  
**, Hackaday**  
<https://hackaday.com/2019/05/27/the-augmented-reality-breadboard-of-the-future/>