

# SEUNGWOO JE

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PhD Candidate, Dept. of Industrial Design, KAIST, KOREA  
[MAKinteract Lab.](#)

jeboungho@gmail.com  
[seungwooje.com](#)

## EDUCATION

- Ph.D. Candidate, Korea Advanced Institute of Science and Technology (KAIST)** 2018 - Present  
Department of Industrial Design, Daejeon, KOREA  
Advisor: Andrea Bianchi
- Master, Korea Advanced Institute of Science and Technology (KAIST)** 2016 - 2018  
Department of Industrial Design, Daejeon, KOREA  
Advisor: Andrea Bianchi  
Thesis: "Design of a smart-ring based on skin-drag motions for expressive haptic feedback"
- Bachelor, Korea Advanced Institute of Science and Technology (KAIST)** 2011 - 2016  
Department of Industrial Design, Daejeon, KOREA  
Advisor: Tek-Jin Nam

## PROFESSIONAL EXPERIENCE

- UX/UI Intern, Korea Institute of Science and Technology (KIST)** 2015  
Robotics Research Team, Seoul, KOREA
- Auditor, KAIST Undergraduate Cooperative Association** 2015  
Daejeon, KOREA
- Establishment Committeeman, KAIST Undergraduate Cooperative Association** 2014 - 2015  
Daejeon, KOREA
- Chairman, KAIST Undergraduate Student Council** 2014  
Daejeon, KOREA

## PUBLICATIONS

### Conference Proceedings (International)

- [6] **Wind-Blaster: a Wearable Propeller-based Prototype that Provides Ungrounded Force-Feedback**  
Seungwoo Je, Hyelip Lee, Myung Jin Kim, Andrea Bianchi  
*In Proceedings of SIGGRAPH 2018 E-Tech, 2 pages.*
- [5] **PokeRing: Notifications by Poking Around the Finger**  
Seungwoo Je, Minkyong Lee, Yoonji Kim, Liwei Chan, Xing-Dong Yang, Andrea Bianchi  
*In Proceedings of CHI 2018, 8 pages.*
- [4] **All4One: A Moderated Sketching Tool for Supporting Idea-Generation with Remote Users**  
Hyelip Lee, Seungwoo Je, Andrea Bianchi  
*In Proceedings of IASDR 2017, 9 pages.*

- [3] **Designing Skin-Dragging Haptic Motions for Wearables**  
**Seungwoo Je**, Okyu Choi, Kyungah Choi, Minkyong Lee, Hyeon-Jeong Suk, Liwei Chan, Andrea Bianchi  
*In Proceedings of ISWC 2017, 4 pages.*
- [2] **tactoRing: A Skin-Drag Discrete Display**  
**Seungwoo Je**, Brendan Rooney, Liwei Chan, Andrea Bianchi  
*In Proceedings of CHI 2017, 8 pages.*
- [1] **Disambiguating Touch with a Smart-Ring**  
 Andrea Bianchi, **Seungwoo Je**  
*In Proceedings of AH 2017, 4 pages.*

## Conference Proceedings (Domestic, Korea)

- [2] **Enhancing Spatial Input on the Body with a Smart-Ring**  
 Andrea Bianchi, **Seungwoo Je**, Hyelip Lee, Ian Oakley  
*In Proceedings of HCI KOREA 2018, 4 pages.*  
**Best Paper Award**
- [1] **VectorWatch : Virtual Force Using a Geared Wrist-Wearable Device**  
 Doyeon Eum, **Seungwoo Je**, Andrea Bianchi  
*In Proceedings of HCI KOREA 2017, 3 pages.*

## PATENTS

**Kinesthetic-feedback wearable apparatus for virtual reality or augmented reality and method for controlling the same**

**Seungwoo Je**, Andrea Bianchi, Young Min Jo, Junkyu Kim, Duck-Joo Lee  
 (Filed No. 10-2018-0046244, Korea Patent)

**Ring-shaped wearable apparatus for transferring information through poke and method for controlling the same**

**Seungwoo Je**, Andrea Bianchi, Minkyong Lee, Yoonji Kim, Liwei Chan, Xing-Dong Yang  
 (Filed No. 10-2018-0039217, Korea Patent)

**WEARABLE APPARATUS HAVING RING SHAPE AND METHOD FOR CONTROLLING MOTION THEREOF**

**Seungwoo Je**, Andrea Bianchi, Brendan Rooney, Liwei Chan  
 (No. 10-1863183, Korea Patent) 2018.05.25, ISSUED

**Vibration generating device wearable on finger and method performing operation corresponding to vibration information**

Andrea Bianchi, **Seungwoo Je**  
 (Filed No. 10-2017-0078401, Korea Patent)

## SCHOLARSHIPS

<b>Korean Government Scholarship (PhD)</b>	2018 - Present
<b>Korean Government Scholarship (Master)</b>	2016 - 2018
<b>KAIST Scholarship</b>	2015
<b>LOTTE Scholarship Foundation</b>	2012 - 2014
<b>Korea National Excellence Scholarship (Natural Sciences and Engineering)</b>	2011

## AWARD

<b>Best Master's Thesis Award</b>	2018
<b>Best Paper Award, Human Computer Interaction Korea (HCIK '18)</b>	2018

## TALK & EXHIBITION

### **The 4th Asila Symposium**

"Future Smart Things for Instrumenting Empathy and Social Intelligence", KIST, Gangneung, Korea, June 24 - June 27, 2018

### **ITRC FORUM 2018 – PokeRing and Wind-Blaster were presented**

COEX, Seoul, Korea, May 23- May 26, 2018.

### **Korea Haptics Community Workshop – tactoRing was presented**

Kyunghee University, Yongin, Korea, November 3, 2017.

### **2017 Information Technology Research Center Forum – tactoRing was presented**

G-itrc Center, Pangyo, Korea, August 23, 2017.

### **Aesthetic Calculation – Interactive artwork**

placeMAK, Seoul, Korea, June 18 - July 8, 2017.

### **ITRC FORUM 2017 – tactoRing was presented**

COEX, Seoul, Korea, May 24- May 27, 2017.

### **2016 AEARU Young Researchers International Conference**

"Innovation for the future – towards human well-being & a sustainable society", Tsukuba, Japan, September 17 - September 18, 2016.

## TEACHING EXPERIENCE

### **Interaction Prototyping, TA**

Professor : Andrea Bianchi (KAIST)

*Special lecture* (2018.11.02) : Motor & Gear

Fall, 2018

### **Advanced Multidisciplinary Capstone Design, TA**

< Development of coding education device for children >

Professor : Myung-Suk Kim (KAIST)

Spring, 2018

### **Undergraduate Research Participation Program, TA**

< TorqueWear : Wearable gyroscopic actuators for VR Immersion & Movement control >

Professor : Andrea Bianchi (KAIST), Student : Myung Jin Kim

2017 - 2018

### **Software Prototyping, TA**

Professor : Andrea Bianchi (KAIST)

Fall, 2017

### **Next Generation Wearables, TA**

Professor : Soojung Ham (RISD)

*Special lecture* (2017.12.01) : The technologies for wearable devices in HCI

Fall, 2017

## Undergraduate Research Participation Program, TA

Fall, 2016

< VectorWatch : Virtual Force Using a Geared Wrist-Wearable Device >

Professor : Andrea Bianchi (KAIST), Student : Doyeon Eum

## ACADEMIC SERVICE

### Selected as Reviewer

TEI '17 Full Paper, DIS '18 Full Paper, Pictorial, PWiP, Eurohaptics '18 Full paper, ISWC '18 Full paper, Brief  
CHI '19 Full Paper

## PRESS

Hackster.io ( <a href="#">Link</a> )	2018
HACKADAY ( <a href="#">Link</a> )	2018
SIGGRAPH 2018 SCOOP - Emerging Technologies: "Wind-Blaster" ( <a href="#">Link</a> )	2018
Channellife ( <a href="#">Link</a> )	2018
Xinhyanews ( <a href="#">Link</a> )	2018
VRfocus ( <a href="#">Link</a> )	2018
Seamless, Virtual Reality News ( <a href="#">Link</a> )	2018
etnews ( <a href="#">Link</a> )	2018
[INTERACTIONS] Volume 25. Issue 2. Demo hour - tactoRing ( <a href="#">Link</a> )	2018