

SEUNGWOO JE

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PhD Candidate, Dept. of Industrial Design, KAIST, KOREA
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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-Drugging 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)

- [3] **AirBeam: Haptic feedback with compressed air on the finger**
Seungwoo Je, Youngkyung Choi, Andrea Bianchi
In Proceedings of HCI KOREA 2019, 3 pages.
- [2] **Enhancing Spatial Input on the Body with a Smart-Ring**
 Andrea Bianchi, **Seungwoo Je**, Hyeon 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

YoungHan Kim's Global Leader Scholarship
 Grant, 1500 USD

2018

Korean Government Scholarship PhD, Full-tuition scholarship	2018 - Present
Korean Government Scholarship Master, Full-tuition scholarship	2016 - 2018
KAIST Scholarship Undergraduate, Full-tuition scholarship	2015 - 2016
LOTTE Scholarship Foundation Undergraduate, Full-tuition scholarship	2012 - 2015
National Excellence Scholarship (Natural Sciences and Engineering) Undergraduate, Full-tuition scholarship	2011 - 2012

AWARD

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

TALK & EXHIBITION

SIGGRAPH 2018 Experience Presentation

"Wind-Blaster: a Wearable Propeller-based Prototype that Provides Ungrounded Force-Feedback", Vancouver Convention Centre, Vancouver, Canada, 16 August 2018

The 4th Aslla Symposium

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

ITRC FORUM 2018 - PokeRing and Wind-Blaster were presented

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

Korea Haptics Community Workshop - tactoRing was presented

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

2017 Information Technology Research Center Forum - tactoRing was presented

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

Aesthetic Calculation - Interactive artwork

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

ITRC FORUM 2017 - tactoRing was presented

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

2016 AEARU Young Researchers International Conference

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

FUNDED RESEARCH PROJECTS

"Interaction between Human and Artifacts such as Artificial Intelligence and Wearable Devices that Enhance Human Cognitive and Physical Capabilities" National Research Foundation of Korea (NRF), Researcher	2018 - present
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"Using virtual partitions to foster collaboration and personal productivity in future office workspaces"	2017 - present
National Research Foundation of Korea (NRF) , Researcher	
"KAIST 4th Industrial Revolution Research Project"	2017
Korea Advanced Institute of Science and Technology (KAIST) , Researcher	
"Platform Development Environment"	2017
Samsung Electronics, Researcher	
"Kinesthetic Haptic Wearable Interface Using Propeller Technology for Virtual and Augmented Reality"	2017
Korea Advanced Institute of Science and Technology (KAIST) , Researcher	
"Development of Socio-Cognitive Science based interaction design for life companionship experience"	2016 - present
Ministry of Science and ICT (MSIT), Grand ICT Research Center, Researcher	
"M4K Platform Design"	2016
Korea Institute of Science and Technology (KIST) , Researcher	

TEACHING EXPERIENCE

Interaction Prototyping, TA	Fall, 2018
Professor : Andrea Bianchi (KAIST)	
<i>Special lecture</i> (2018.11.02), "Motor & Gear"	
Advanced Multidisciplinary Capstone Design, TA	Spring, 2018
"Development of coding education device for children"	
Professor : Myung-Suk Kim (KAIST)	
Undergraduate Research Participation Program, TA	2017 - 2018
"TorqueWear : Wearable gyroscopic actuators for VR Immersion & Movement control"	
Professor : Andrea Bianchi (KAIST), Student : Myung Jin Kim	
Software Prototyping, TA	Fall, 2017
Professor : Andrea Bianchi (KAIST)	
Next Generation Wearables, TA	Fall, 2017
Professor : Soojung Ham (RISD)	
<i>Special lecture</i> (2017.12.01), "The technologies for wearable devices in HCI"	
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

[INTERACTIONS] Volume 26. Issue 1. HOW WAS IT MADE (Link)	2019
[INTERACTIONS] Volume 26. Issue 1. Demo hour (Link)	2019
VRROOM (Link)	2018
Hackster.io (Link)	2018
HACKADAY (Link)	2018
SIGGRAPH 2018 SCOOP - Emerging Technologies: "Wind-Blaster" (Link)	2018
Channellife (Link)	2018
Xinhynews (Link)	2018
VRfocus (Link)	2018
Seamless, Virtual Reality News (Link)	2018
etnews (Link)	2018
[INTERACTIONS] Volume 25. Issue 2. Demo hour (Link)	2018