HUMAN-COMPUTER INTERACTION · HAPTICS · LEARNING TECHNOLOGIES

Seungjae Oh

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"I am a Human-Computer Interaction researcher interested in Haptics, Sensing Technologies, and Learning Technologies"

Education

Pohang University of Science and Technology (POSTECH)

Ph.D. Creative IT Engineering (Summa Cum Laude).

- Thesis: Enriching Haptic Interaction with Tangible Objects by Vibration Analysis
- Advisor: Seungmoon Choi

Technische Universität Berlin (TU Berlin)

Exchange Student, Informatiks.

Pohang University of Science and Technology (POSTECH)

B.S. Electrical Engineering (Summa Cum Laude).

Professional Experience

Kyung Hee University

Assistant Professor, Dept. of Software Convergence.

Pohang University of Science and Technology (POSTECH)

Postdoctoral Researcher, Dept. of Computer Science and Engineering. Advisor: Seungmoon Choi

Pixels.IO

Intern. Developed an iPhone application for marker-based interaction for large public displays. Mentors: Grace Woo and Szymon Jakubczak.

Fujitsu Laboratories Ltd.

Undergraduate Intern. Measured the performance of MRAM (Magnetic Random Access Memory). Mentor: Youngmin Lee

Awards & Honors _

- 2021 Best Paper Award, Korea Computer Congress 2021 PI: Seungjae Oh 2020 Postdoctoral Fellowship Program, National Research Foundation of Korea Best Poster/Demo Award, Asian CHI Symposium (ACM CHI 2019 Workshop) 2019 MSRA Collaborative Research Grant, Microsoft Research Lab Asia PI: Seungmoon Choi 2019 2019 Outstanding Presentation Award, ACM SIGCHI Korea Local Chapter Spring Academic Workshop Excellence Award, The 3rd Makers Contest at POSTECH 2017 2014 Top 250 out of 1000 selected applicants, Intel RealSense Application Challenge (IDEA Phase) 2013 Best Poster Award, ACM Symposium on Spatial User Interaction Graduate Scholarship, Kwanjeong Educational Foundation 2012 2010 Undergraduate Student Scholarship Program, Korea Foundation for Advanced Studies
- 2008 National Scholarship for Science and Engineering, Ministry of Education, South Korea

Pohang, South Korea Mar 2012 - Feb 2020

> Berlin, Germany Apr 2011 - Sep 2011

Pohang, South Korea Mar 2008 - Feb 2012

Yongin, South Korea Sep 2022 - Present

Pohang, South Korea Feb 2020 - July 2022

> Boston, USA Jun 2013 - Aug 2013

Kanagawa, Japan Feb 2009

Patents _____

Domestic Patents	
D.3 APPARATUS AND METHOD FOR RENDERING TACTILE TO	PROVIDE MULTIPLE SENSE
10-2019-0156899	2019.12.06
Chaeyong Park, Seungjae Oh , and Seungmoon Choi	
D.2 OBJECT IDENTIFICATION APPARATUS AND METHOD, SYS	TEM COMPRISING THE SAME
10-2272641	2019.11.25
Seungjae Oh, and Seungmoon Choi	2021.6.25
D.1 3D INTERACTION METHOD FOR DISPLAY	
10-1847577	2016.9.30
Heejin Kim, Seungjae Oh , Sung H. Han, and Min K. Chung	2018.4.4

Professional Service _____

Reviewer, ACM UIST (1 Special Recognitions of Outstanding Reviews). ACM CHI. ACM IMWUT. IEEE World Haptics.
Reviewer, ACM UIST (2 Special Recognitions of Outstanding Reviews). IEEE RA-L. Eurohaptics. ACM CHI LBW.
Reviewer, Computers & Education, ACM SIGGRAPH Asia Emerging Technologies, ACM CHI LBW
Student Volunteer, ACM TEI

Teaching & Mentoring _____

Spring 2021 Mentoring, Minjae Mun, Masters, POSTECH. Best Paper Award at Korea Computer Congress 2021.	
Spring 2020 Mentoring , Hyoseung Lee, Masters, POSTECH. Full paper submitted to IEEE Transactions on Haptics.	
Mentoring, Jinsoo Kim, Undergraduate, POSTECH. Full paper published in ACM CHI.	
Teaching Assistant, Human-centered Design: Theory and Practice, POSTECH (CITE390E)	
Spring 2015 Teaching Assistant , Human-centered Design: Theory and Practice, POSTECH (CITE390E)	
Fall 2015 Teaching Assistant , Human-centered Design Studio, POSTECH (CITE305)	

Technical Skills _____

Hardware

- Actuators: Shaker, Surface transducer, Voice coil, and ERM/LRA
- Sensors: Load cell, Accelerometer, Force/Torque sensor, Microphone, and Contact Microphone
- Data Acquisition: NI DAQ, Soundcard Real-time Processing, and Arduino
- Virtual Reality: Oculus Rift, HTC Vive, Meta One, and Microsoft Hololens
- Others: Iphone, Android, Optitrack Trio, Microsoft Kinect, Philips Hue & Bridge, Laser cutter, and 3D printer

Experiment and Analysis

- Statistical Analysis: Comparison (Parametric & Non-parametric), Regression, Dimension Reduction, and Survey Analysis
- Human Experiment: Psychophysics & Perception, Human Performance, Quantitative, and Qualitative

Data Analysis

• Spectral Analysis, Signal Processing, and Machine Learning

Software

- Programming: Matlab, Python, Processing, Java, and C#
- Tools: R, Adobe Photoshop & Illustrator, LaTex, and Microsoft Office