

# Hyojoon Park

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## RESEARCH INTEREST

Physics-based simulation in computer graphics incorporating machine learning and computer vision.

## EDUCATION

### University of Wisconsin-Madison

Ph.D. student in Computer Science

Sep. 2021 -  
Wisconsin, USA

### Seoul National University

M.S. in Mechanical Engineering

· Haptic, controls, robotics, and physics-based simulation in computer graphics

Feb. 2019  
Seoul, South Korea

### Technical University of Munich (TUM)

B.S. Exchange Student in Mechanical Engineering

Spring 2014  
Munich, Germany

### Korea University

B.S. in Mechanical Engineering

Feb. 2017  
Seoul, South Korea

## PUBLICATIONS

- **Capturing Detailed Deformations of Moving Human Bodies,**  
He Chen, **Hyojoon Park**, Kutay Macit, Ladislav Kavan, SIGGRAPH, 2021
- **Adaptive Precision-Enhancing Hand Rendering for Wearable Fingertip Tracking Devices,**  
**Hyojoon Park** and Jung-Min Park, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2020
- **Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality,**  
Jinwoo Lee, Heayoun Sul, Wonha Lee, Kyung Rok Pyun, Inho Ha, Dongkwan Kim, **Hyojoon Park**, Hyeonjin Eom, Yeosang Yoon, Jinwook Jung, Dongjun Lee, and Seung Hwan Ko, Advanced Functional Materials, 2020
- **Dental Simulator with Increased Z-width of Haptic Rendering,**  
**Hyojoon Park**, Myungsin Kim, and Dongjun Lee, AsiaHaptics, 2018
- **Rigid-body Collaborative Manipulation among Remote Users with Wearable Cutaneous Haptic Interfaces,**  
Myungsin Kim, WonHa Lee, **Hyojoon Park**, Junghan Kwon, Yong-Lae Park, and Dongjun Lee, AsiaHaptics, 2018
- **Design and Performance Evaluation of Wearable Haptic Interfaces,**  
WonHa Lee, Myungsin Kim, **Hyojoon Park**, and Dongjun Lee, International Conference on Control, Automation and Systems, 2018
- **Wearable Cutaneous Haptic Interface with Soft Sensors and IMUs,**  
Yongjun Lee, Myungsin Kim, Yongseok Lee, **Hyojoon Park**, and Dongjun Lee, Korea Robotics Society Annual Conference, 2018

## WORK EXPERIENCES

### University of Utah

Graduate Research Assistant (Advisors: Prof. Ladislav Kavan & Prof. Cem Yuksel)

Sep. 2019 - May 2021  
Utah, USA

### Korea Institute of Science and Technology (KIST)

Intern Researcher

Mar. - Aug. 2019  
Seoul, Korea

### Engineering School in KAIST New Education

(Korea Advanced Institute of Science and Technology)

· Led "Arduino-based Exploration Robot" and "Developing Android Service App" classes

Sep. 2014 - Feb. 2015  
Seoul, Korea

### Military Service

Republic of Korea Army (ROKA) as Military English Interpreter

Jun. 2011 - Mar. 2013  
21 months

## TEACHING

### **Computer Graphics (CS559)**

*Teaching Assistant*

*Fall 2021*  
*University of Wisconsin-Madison*

### **Interactive Computer Graphics (CS6610)**

*Teaching Assistant*

*Spring 2021*  
*University of Utah*

### **Computer Graphics (CS4600)**

*Teaching Assistant*

*Fall 2020*  
*University of Utah*

### **System Analysis in Mechanical Engineering**

*Teaching Assistant*

*Spring 2018*  
*Seoul National University*

## AWARDS

### **Outstanding MS Thesis Presentation Award**

*Department of Mechanical Engineering*

· *Topic: Dental Simulator with Increased Z-width of Haptic Rendering*

*Dec. 2018*  
*Seoul National University*

### **Award of Excellence**

*English-Mediated Course Tutor: Writing*

*Fall 2013*  
*Korea University*

## SCHOLARSHIPS

**Merit-based Scholarship,** Seoul National University

*Spring 2018*

**National Scholarship,** Korea University

*Spring 2016*

**Future Scholarship,** Korea University

*Spring 2016*