

Hyojoon Park

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RESEARCH INTEREST

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

EDUCATION

University of Wisconsin-Madison

Ph.D. student in Computer Sciences

*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