

Hyojoon Park

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RESEARCH INTEREST

Computer graphics & visualization: physics-based simulation, computer vision, machine learning

EDUCATION

University of Utah

Ph.D in School of Computing

*Sep. 2019 - present
Utah, USA*

Seoul National University

M.S. in Mechanical & Aerospace Engineering

*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

- **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

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

TEACHING

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

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

OTHER EXPERIENCES

Invited Presenter at NAVER LABS Seminar (<https://www.naverlabs.com/>)

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

Dec. 2018
Seongnam, Korea

Mobile Application Developer, independent

2015 - 2016

- **Korean Subway (iOS, Android)**

- The first full Korean subway app to adopt satellite-based subway maps, with real-time train information

- *KDijkstra's shortest path algorithm, Kd-Tree data structure, Swift (iOS), Java (Android), PHP-cURL, SQLite, Amazon AWS, Photoshop, Illustrator*

- **KUSchedule (iOS, Android)**

- Server-based and auto-generated lecture timetable app for Korea University students (Android removed)

- *AES-256 encryption, Objective-C (iOS), Java (Android), PHP-cURL, DOM parser/regex, Photoshop, Illustrator*

- **Space Shoot RPG (iOS, Android)**

- Arcade-RPG game

- *Cocos2d-x in C++, SQLite, Photoshop, Illustrator*

- **Falling Moon (iOS, Android)**

- Physics-based arcade game

- *Cocos2d-x in C++, Cocos2d-x physics engine, Photoshop, Illustrator*

- **Group Alarm (iOS, Android)**

- Socket-based multi-user alarm app (currently removed)

- *Node.js, UDP, Javascript, jQuery, Ajax, HTML, CSS, MySQL, Cordova, Amazon AWS, Photoshop, Illustrator*

Invited Presenter New Faculty Orientation

Topic: 'How to Prepare for English-oriented Lectures'

Feb. 2014
Korea University

Korean Language Center

Korean Tutor for International Students

Fall 2014
Korea University

Center of Teaching and Learning

English-Mediated Course Tutor: Writing (received Award of Excellence)

Fall 2013
Korea University

SYMEE Academy

TOEFL Writing Teacher

Jan. - Jul. 2013
Seoul, Korea

EBS (English Broadcasting System) Jeju English Camp

English Translator for Foreign Teachers

Jan. 2011
Jeju Island, Korea

SKILLS

- C/C++, Python, Java, Swift, Objective-C, C#
- PHP, Javascript, Ajax, jQuery, Node.js, HTML, CSS