Hyojoon Park

hjoonpark.us@gmail.com · www.cs.utah.edu/~joonpark · (+1) 801-209-4342

RESEARCH AREA

Computer graphics & visualization: physics-based simulation, differentiable simulator/renderer.

EDUCATION

The University of Utah Sep. 2019 - present Ph.D in Computer Science Utah, USA **Seoul National University** Feb. 2019 Seoul, South Korea M.S. in Mechanical & Aerospace Engineering **Technical University of Munich (TUM)** Spring 2014 B.S. Exchange Student in Mechanical Engineering Munich, Germany **Korea University** Feb. 2017 B.S. in Mechanical Engineering Seoul, South Korea

PUBLICATIONS

- Hyojoon Park and Jung-Min Park,
 Adaptive Precision-Enhancing Hand Rendering for Wearable Fingertip Tracking Devices, IROS, 2020
- 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,
 Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality, Advanced Functional Materials, 2020
- Hyojoon Park, Myungsin Kim, and Dongjun Lee,
 Dental Simulator with Increased Z-width of Haptic Rendering, Asia Haptics, 2018
- Myungsin Kim, WonHa Lee, Hyojoon Park, Junghan Kwon, Yong-Lae Park, and Dongjun Lee,
 Rigid-body Collaborative Manipulation among Remote Users with Wearable Cutaneous Haptic Interfaces,
 AsiaHaptics, 2018
- WonHa Lee, Myungsin Kim, Hyojoon Park, and Dongjun Lee,
 Design and Performance Evaluation of Wearable Haptic Interfaces, International Conference on Control, Automation and Systems, 2018
- Yongjun Lee, Myungsin Kim, Yongseok Lee, Hyojoon Park, and Dongjun Lee,
 Wearable Cutaneous Haptic Interface with Soft Sensors and IMUs, Korea Robotics Society Annual Conference,
 2018

WORK EXPERIENCES

Korea Institute of Science and Technology (KIST)Mar. - Aug. 2019Intern ResearcherSeoul, Korea

Engineering School in KAIST New Education

(Korea Advanced Institute of Science and Technology) Seoul. Korea

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

Military Service Jun. 2011 - Mar. 2013

Republic of Korea Army (ROKA) as Military English Interpreter

TEACHING

System Analysis in Mechanical Engineering

Spring 2018 Seoul National University

Sep. 2014 - Feb. 2015

Teaching Assistant

· Problem solving, test/quiz reviews, MATLAB, Simulink, and Q&A

AWARDS

Outstanding MS Thesis Presentation Award Dec. 2018 Department of Mechanical Engineering Seoul National University **Award of Excellence** Fall 2013 English-Mediated Course Tutor: Writing 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/) Dec. 2018 Topic: 'Dental Simulator with Increased Z-width of Haptic Rendering' Seongnam, Korea 2015 - 2016

Mobile Application Developer, independent

- · 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, Ama-
- zon 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 mutli-user alarm app (currently removed)
 - · Node. js, UDP, Javascript, jQuery, Ajax, HTML, CSS, MySQL, Cordova, Amazon AWS, Photoshop, Illustrator

Invited Presenter New Faculty Orientation Feb. 2014 Topic: 'How to Prepare for English-oriented Lectures' Korea University **Korean Language Center** Fall 2014 Korean Tutor for International Students Korea University

Center of Teaching and Learning Fall 2013 English-Mediated Course Tutor: Writing (received Award of Excellence) Korea University

SYMEE Academy Jan. - Jul. 2013 TOEFL Writing Teacher Seoul, Korea

EBS (English Broadcasting System) Jeju English Camp Jan. 2011 Jeju Island, Korea

English Translator for Foreign Teachers

SKILLS

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