

# JINHYUK YOON

**POSTECH, Medical Assistant Robotics and Cognitive Haptics Lab**  
KIRO 410, 77, Cheongam-ro, Nam-gu, Pohang, Gyeongbuk, South Korea

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I'm an engineer proficient in presentation and public speech. With the interests in human-robot interaction and haptics, I aspire to design intelligent assistant robot that extend human capability. Also as a science communicator commissioned by the South Korean government, I have been succeeding in delivering knowledge about science to the children, student and public through public speech, performance and video art.

## PROFESSIONAL EXPERIENCE

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**POSTECH, Medical Assistant Robotics and Cognitive Haptics Lab**  
Research Assistant

Mar 2020 – Present

Designing intelligent assistant robots that extend human capability through intuitive and immersive human-robot interfaces. Advisor: Keehoon Kim.

**Geekble**

Mar 2019 – Present

Project Manager (Freelance)

Leading an on-stage talk business for students focused on science and hands-on activities based on YouTube videos.

**POSTECH, Haptics and Virtual Reality Laboratory**

Feb 2019 – Aug 2019

Undergraduate Research Assistant

Conducted hardware prototyping, sensing system calibration, and user experiment design for augmenting programmable feels of physical buttons with vibrotactile feedback. Advisor: Seungmoon Choi.

**Korea Foundation for the Advancement of Science & Creativity**

May 2016 – Jan 2018

Science Communicator (Freelance)

Succeeded effective understanding on the knowledge of mechanical engineering for elementary, middle school, high school students and adult through public speech and stage performance with participation of audience.

## EDUCATION

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**Master of Science in Mechanical Engineering**

2020 – Present

Pohang University of Science and Technology (POSTECH)

Research interests: Human-robot interaction, Haptics.  
Advisor: Keehoon Kim

## **Bachelor of Science in Mechanical Engineering**

2014 – 2020

Pohang University of Science and Technology (POSTECH)

Minor in Industrial Management Engineering.

Honor graduation with Magna Cum Laude.

Bachelor Thesis Project: Book Borrowing Robot.

## **EXPLORATION**

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### **Samsung Electronics, Digital Appliances, Core Component R&D Lab**

Jan 2019 – Feb 2019

Mechanical Design Intern

Simplified design process of creating an appliance and helped engineers to explain mechanical phenomena to other division members through Interactive Torque Designer which interprets dynamics with an uncomplicated graphic.

### **Sovoro**

Jan 2018 – Apr 2018

Communications Manager

Improved educational circumstance of hearing impaired as allowing them to understand the contents of usual class or seminar through conducting UI/UX research and designing the real-time transcript software.

### **Asan Medical Center, Biomedical Engineering Research Center**

Aug 2017 – Sep 2017

Research Intern

Designed concept prototype of Ankle Rehabilitation Assistant which analyzes ankle torque and provides rehabilitative movement. Advisor: Youngjin Moon.

### **POSTECH, Department of Mechanical Engineering**

Jan 2016 – Mar 2017

Student President

Requested for improvement and opening of major classes based on the students' needs and directed departmental level of general meeting, student membership training, professor appreciation banquet, and the first inter-university association program with KAIST.

### **POSTECH, Student Election Committee**

Sep 2016 – Nov 2016

Chairman

Organized the student election committee and run the election for central student president.

### **TEDxPOSTECH**

Nov 2014 – Nov 2015

Director

Organized talk conference that sold out after 50 seconds of opening sign-ups through team building, speaker and sponsor contact, stage planning and facilitating on the event.

## AWARDS AND HONORS

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<b>Commission Letter</b> Minister of Ministry of Science & ICT commissioned me as a science communicator	2016
<b>Finalist</b> Nationwide Top 11 of the 3rd FameLab Korea	2016
<b>1st Prize</b> Developed campus map android application at the 7th POSTECH Hackathon	2019
<b>Runners Up</b> Artience Creation Challenge 30x30 hosted by British Council Korea	2017
<b>Honorable Mention</b> 3 Minutes Science Speech Contest hosted by POSTECH	2015
<b>Student of the Year</b> POSTECH, Department of Mechanical Engineering	2015, 2016
<b>4th Prize</b> Designed graduate school searching web platform at the 2nd POSTECH Hackathon	2016
<b>National Academic Excellence Scholarship</b> Korea Student Aid Foundation, Full-tuition	2016 - 2019
<b>KT&amp;G Foundation Scholarship</b> POSTECH	2016
<b>Jigok Scholarship</b> POSTECH, Full-tuition	2014 - 2016

## SELECTED TALKS

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Talk, " <i>About Experience</i> ", <b>POSTECH Senior Conference for Freshman</b> , Pohang	2018, 2019
Keynote Speech, " <i>Engineering and Science Communication</i> ", <b>The 5th Integrated Science Leading Teacher Training</b> , Yeongcheon	2016
Keynote Speech, " <i>About Science Communication</i> ", National Youth Science Exploration Competition, Gyeongju	2016
Talk, " <i>Regain the Lost Life</i> ", <b>Suseong-gu Gosan Library</b> , Daegu	2018
Talk, " <i>Regain the Lost Life</i> ", <b>KIST Science Station</b> , Seoul	2017
Talk, " <i>Space Food</i> ", <b>The 13th Bohyeonsan Starlight Festival</b> , Yeongcheon	2016
Talk, " <i>Science, Engineering and Me</i> ", <b>Seongji High School</b> , Yongin	2017

Talk, "*Communicate with Science*", **Mulgeum High School**, Yangsan

2017

Talk, "*Talk with Odd Engineering Student*", **Samsung Girl's High School**, Busan

2017

## PUBLICATIONS

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### **To My Students, To My Teachers**

Andrea Sohn and Jinhyuk Yoon, *The Korea Fulbright Infusion*, Vol 5.5, 2013, 39 – 41.

## SKILLS AND TOOLS

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### **Programming Language**

C, C++, JAVA, MATLAB, HTML, CSS, JavaScript

### **Graphic Design**

Adobe Photoshop, Illustrator, Premiere, After Effects, InDesign

### **3D Design Analysis**

Solidworks, NX