Kyuho Jang

Address	#910, 29, Gwanak-ro 17-gil, Gwanak-gu, Seoul 08786, Republic of Korea	**Phone**	+82-10-3447-1716
		Email	jkh9804@snu.ac.kr
Date of Birth	4th April 1998	**Homepage**	www.kyuhojang.com

RESEARCH INTEREST

- Interactions between human and the virtual world
- Wearable, flexible, and haptic sensors
- Intuitive virtual reality user interface

EDUCATION

Seoul National University	**Sept. 2020 - Current**
M.S. candidate in Department of Materials Science and Engineering	**GPA: 4.3/4.3**
Seoul National University	**Mar. 2017 - Aug. 2020**
B.S. in Department of Materials Science and Engineering	**GPA: 4.15/4.3**

HONORS, PRIZES, AWARDS, AND FELLOWSHIPS

Scholarship from BrainKorea21 Four (Total: $12k)	**2020 - 2021**
Graduated Summa Cum Laude, Seoul National University	**2020**

: Ranked 2nd **out of 88** graduating students in the Department of Materials Science and Engineering

Metal Materials Alumni Chairman's Award **2020**

: In recognition of the top student graduate from the Department of Materials Science and Engineering, Seoul National University

First Prize in Steel Idea Contest **2020**

: Student award for the best idea for the application of AI in the steel industry across the top three universities in the Republic of Korea

Intern Popular Research Award **2019**

: In recognition of the top research conducted by interns in the Department of Materials Science and Engineering, Seoul National University

Scholarship from Shilla Cultural Scholarship Foundation (Total: $13k) **2018 - 2020**

Merit-Based Scholarship **2017**

: Awarded to the top 10% of first-year students at Seoul National University

RESEARCH EXPERIENCE

Graduate Research Assistant **Sept. 2020 - Current**

Multi-Variant Structures & Materials Lab., Department of Materials Science and Engineering, Seoul National University

- **Project 1**: A Facile Method to Extract a Constitutive Relation for Granular Materials using Triaxial Compression Tests and Optimization methods (Thesis)

  - Primary researcher
  - Developed analytical equations to calculate the constitutive behavior of granular materials under a triaxial compression test
  - Optimized material properties using the gradient descent algorithm, the genetic algorithm, and Bayesian Optimization
  - Almost ready to submit the manuscript to a journal

- **Project 2**: Dynamic Response of Fibroblasts under Biaxial Tension

  - Primary researcher
  - Designed and built a biaxial tensile tester for microscale substrate

Research Intern   **Jun. 2019 - Aug. 2020**
Multi-Variant Structures & Materials Lab., Department of Materials Science and Engineering,
Seoul National University

- **Project 1**: Powder Based Transfer Printing using Computational Method

  - Primary researcher
  - Designed a hydraulic transfer printing device
  - Devised an algorithm that predicts the final shape of sensor patterns after transfer printing

CONFERENCE PRESENTATION

Accepted: **K.Jang**, I. S. Choi, A Facile Method to Extract a Constitutive Relation for Granular   **2021**
Materials using Bayesian Optimization-Based Analysis, **MRS Fall Meeting**

TEACHING EXPERIENCE

Teaching Assistant for Physical Metallurgy, Seoul National University   **Fall 2020**

OTHER ACTIVITIES

Volunteered in Jagwangwon, nursing home   **2018 - 2019**
: lend an ear to the lonely elderly and cleaned their room, etc.

Participated in the Han River Protection Campaign   **2018 - 2019**

Organized the first academic club, Plastic Dragon, for the Department of Materials Science   **2018**
and Engineering, Seoul National University

PROGRAMMING SKILLS

Python, Javascript, MATLAB, HTML/CSS, Arduino, Fortran, Latex, C++

Referees

Name   In-Suk Choi
Institution   Seoul National University
Position   Associate Professor
Contact   insukchoi@snu.ac.kr

Name   Myoung-Gyu Lee
Institution   Seoul National University
Position   Professor
Contact   myounglee@snu.ac.kr

Name   Jeong-Yun Sun
Institution   Seoul National University
Position   Associate Professor
Contact   jysun@snu.ac.kr