# **Kyoungyeon Choi**

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# Research Interests

- -Robotics, Robotic Manipulation, and Legged Robotics
- -Dynamics and Control

# **Education**

#### Seoul National University (SNU)

Seoul, S.Korea

**B.S. IN MECHANICAL ENGINEERING** 

Mar. 2015 - PRESENT

- Cumulative GPA: 4.1/4.3 (Major: 4.19/4.3, Upper: 4.21/4.3)
- Two years of absence to fulfill military duty (Aug. 2017 Jul. 2019)

**ETH Zürich** Zürich, Switzerland

**EXCHANGE STUDENT IN MECHANICAL ENGINEERING** 

Aug. 2019 - Feb.2020

· Global Leadership Program, College of Engineering SNU

# Research Experience \_\_\_\_\_

#### **Bachelor's Thesis Research**

Seoul, S.Korea

ROBOTICS LABORATORY, SNU

Mar. 2020 - Present

- Advisor: Frank Chongwoo Park Prof.Dr.
- Thesis: Learning 6-dof grasping from partial point cloud embedding
- Developed a grasping policy that selects a successful 6-dof grasp pose from a VAE grasp generator

Semester Project Zürich, Switzerland

ROBOTIC SYSTEMS LAB, ETH ZÜRICH

Aug. 2019 - Jan. 2020

- Advisor: Marco Hutter Prof.Dr.
- Project paper: Recovery controller for ANYmal on various terrains
- Project webpage: https://bestever-choi.github.io/ANYmal-recovery/
- Developed recovery controller for the quadruped robot ANYmal, enabling ANYmal to recover and stand up on sloped terrains

Research Intern Seoul, S.Korea

PHOTONICS DEVICE PHYSICS LABORATORY, YONESI UNIVERSITY

Dec. 2016 - Feb. 2017

- Advisor: Kyunghwan Oh Prof.Dr.
- Research Paper:Two-mode Fiber with a Reduced Mode Overlap for Uncoupled Mode-division Multiplexing in C+L Band
- Designed a fiber optic cable that reduces mode overlap in LP01 and LP11 modes

# **Publications**

• Seongjin Hong, **Kyoungyeon Choi**, Yong Soo Lee, and Kyunghwan Oh, "Two-mode Fiber with a Reduced Mode Overlap for Uncoupled Mode-division Multiplexing in C+L Band", Current Optics and Photonics, Vol. 2, Issue. 3, June 25, 2018.

# Extracurricular Activity \_\_\_\_\_

Sigma Intelligence Seoul, S.Korea

MEMBER, SNU

• A robotics group focused on designing robots and electronics devices

Jul. 2016 - Aug. 2017

- A robotics group rocused on designing robots and electronics devices
- Developed footsteps warning device using piezoelectric sensor with ROS

#### **Teaching and Mentorship**

TEACHER

Seoul, S.Korea

Mar. 2015 - Aug. 2019

• Taught and mentored middle/high school students Math and Physics for 4 years

KYOUNGYEON CHOI-CURRICULUM VITAE

# **Honors & Awards**

## **Kwanak President Scholarship**

SNU ALUMNI ASSOCIATION

Seoul, S.Korea

Sep. 2015 - Present

- Awarded for academic excellence
- Full-tuition, 7 semester

## **Global Leadership Program Scholarship**

College of Engineering, SNU

Seoul, S.Korea

Aug. 2019

• Exchange semester at ETH Zürich

## **National Mathematics Competition**

Seoul, S.Korea

GLOBAL ASSOCIATION FOR GIFTED AND TALENTED

Nov. 2013

• The first prize

# Skills.

**Programming** Python, Matlab, Tensorflow, C, C++, ROS, LaTeX

**3D CAD** SolidWorks

**Robot Simulation** Raisim gym, Mujoco gym, PyRep

**Physics Simulation** COMSOL Multiphysics

# Other Experience \_\_\_\_\_

### **Seoul Metro Corporation**

Seoul, S.Korea

SOCIAL SERVICE AGENT

Aug. 2017 - Jul. 2019

- Alternative military service
- Designed a CAD model for military purpose