

# CHANMI LEE

BS student  
Yonsei University  
lcm0419@yonsei.ac.kr

## EDUCATION

---

Aug. 2023 ~ Present	<b>Korea Advanced Institute of Science and Technology</b> Robotics Program <i>Advisor: Sung-Eui Yoon</i> <i>Master Student</i> GPA: 3.74 / 4.3	Daejeon, Korea
Mar. 2019 ~ Aug. 2023	<b>Yonsei University</b> School of Electrical and Electronic Engineering  Thesis: Skeleton Based Action Recognition <i>Advisor: Sangyoun Lee</i>  <i>B.S. in Electrical and Electronic Engineering</i> GPA: 3.7 / 4.3	Seoul, Korea

## RESEARCH INTERESTS

---

- Reinforce Learning
- Robot planning
- Robot manipulator
- Mobile manipulator

## SKILLS AND TECHNIQUES

---

- Languages  
- Python, C, C++, C#, MATLAB, Arduino, Java
- Frameworks  
- Pytorch, ROS
- Utilities  
- Pycharm, Anaconda, VS code, Jupyter Notebook, Unity, Android Studio  
- CubeIDE, IAR EWARM, TwinCAT

## PUBLICATIONS (DOMESTIC)

---

1. 이찬미, 윤민성, 윤성의, "이미지 기반 정책 함수에 대한 적대적 공격", 한국컴퓨터종합학술대회 (KCC), (2024)
2. ChanMi Lee, JaeGwan Jeong, HunSeok Choe, "Utilizing Step Up Regulators to Collect Electricity from Used Batteries", International Journal of STEAM (Science Technology Engineering Art

## AWARDS AND HONORS

---

- 2024 한국컴퓨터종합학술대회 우수발표논문상, 한국정보과학회, Korea (Jul. 2024)
- Honorable Mention, I-SWEEEP, United States (May. 2017)
- 은상, 한국과학기술지원단, KSEF, Korea (Feb. 2017)
- 은상, Hanwha, Hanwha Science Challenge, Korea (Jun. 2016)
- 한국어성발명협회장상, 대한민국학생발명전시회, Korea (Jun. 2017)

## PROJECTS

---

- Dreams Come True (mobile robot planning using reinforcement learning), YAI, Korea (Mar. 2023 ~ May. 2023)
- YAIverse (Improve performance of StyleGAN, then apply it by developing mobile application), YAI, Korea / Image alignment, improve performance of jojoGAN (May. 2022 ~ Jun. 2022)
- Anomaly detection of time series data using reinforcement learning algorithm, Yonsei University x YAI, Korea (May. 2022 ~ Present)
- OCRdistillation, Lomin, Korea / Program to implement Knowledge distortion using the OCR model. (Jan. 2022 ~ Mar. 2022)
- 공학관 길잡이. 움직이는 키오스크, LINC+ 4차 산업혁명 혁신선도대학 AIM(AI & IoT for Mobility) 사업단, Korea (Sep. 2020 ~ Nov. 2021)
- 4족보행 로봇 제작, Yonsei University - Roboin, Korea (Jan. 2021 ~ Feb. 2022)
- 라인트레이서 로봇 제작, Yonsei University - Roboin, Korea (Oct. 2019 ~ Dec. 2019)
- sEMG의 연구와 활용, Yonsei University - class of '학생자율연구', Korea (Sep. 2019 ~ Dec. 2019)
- The Use of Step Up Regulators in Collecting Electricity from Used Batteries, KSEF, Korea (Jan. 2017 ~ May. 2017)
- Step up regulator를 이용한 폐건전지 전력 활용, Hanwha Science Challenge, Korea (Mar. 2016 ~ Jul. 2016)

## EXPERIENCE\_INTERNSHIP

---

- DYROS LAB (JAN.2023~Present)
  - Research about collision check (Manipulator motion planning - self collision & environment collision detection)
- KIST ROBOGRAM LAB (MAR.2022~DEC.2022)
  - Implement SPI and EtherCAT communication between MCUs
  - Design circuits and code for communication implementation
  - Research about grasp planning using Reinforcement Learning
- CODEVISION (Jun.2021~Aug.2021)
  - Construction and development of artificial intelligence-based video learning datasets.

## EXPERIENCE\_ACTIVITY

---

- President of Honors Society (Aug.2020 ~ Jul.2021)
  - The only academic society in the School of Electrical and Electronic Engineering at Yonsei University

- Officer of Roboin (Jan.2021 ~ Jan.2022)  
- Robotics Club in the Department of Mechanical Engineering at Yonsei University
- Member of YAI (Jan.2022 ~ Present)  
- Yonsei Artificial Intelligence Society

## EXPERIENCE\_STUDY

---

- Study of Artificial Intelligence (Mar.2021 ~ Jul.2021)  
- Academic study to share knowledge related to artificial intelligence. I studied about reinforcement learning and explain it to study members.
- Study of Artificial Intelligence (Sep.2021 ~ Dec.2021)  
- Academic study to share knowledge related to artificial intelligence. I studied based on a book 'Pattern Recognition and Machine Learning'.
- Study of Artificial Intelligence (Jan.2022 ~)  
- Academic study to read papers about Artificial Intelligence and share about that. I am reading papers related to reinforcement learning.

## EXPERIENCE\_VOLUNTEER

---

- Participate in '독수리 튜터링' for tutor of engineering physics and experimentation (2020.03.~2020.06.)  
- Tutoring program for major subjects at Yonsei University. I worked as a tutor explaining major subjects in engineering physics and experimentation.
- Member of YDMC (2020.03.~)  
- Volunteer club that explains college departments to high school students. I explained about the Department of Electrical and Electronic Engineering.

## PORTFOLIO

---

<https://www.notion.so/CHANMI-s-Portfolio-2a4ad6ac3629439298f7205cb5c08d44>