



Changhwa Lee

📍 Ulsan, Korea

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📄 <https://changhwaLee.github.io>

Born 12 August 1996

EDUCATION

Mar 2015 – Aug 2020

Bachelors's degree in Mechanical Engineering

Mechanical Engineering, Kyungpook National University, Daegu, Korea

- GPA: 4.11/4.5 (the early graduation in 7th semester)
- minor: Computer Science and Engineering

Sep 2020 – Aug 2022

Master's degree in Computer Science and Engineering

Computer Science and Engineering, UNIST, Ulsan, Korea

- Research: Hand Pose-estimation, 3D reconstruction, Image Translation, Computer vision based deep learning
- Lab: Vision and Learning LAB(Advisor: Seungryul Baek)

RESEARCH EXPERIENCE

Mar 2016 – Dec 2016

Research Assistant

Cloud Connected IoT Lab, EE

- Studied the Internet of Things field and developed many skills based on open-source hardware, understanding microprocessors and supporting various studies and paper.

Dec 2019 – June 2020

Undergraduate Researcher

Interdisciplinary Computational Fluid Mechanics Lab, ME

- The use of deep learning in the field of medical imaging is endless. Medical images analysis and generating image using deep learning technique.

Sep 2020 – Aug 2022

Master's Course Researcher

Vision and Learning Lab [[link](#)], CSE

- Topic: Computer-vision based deep learning, Hand&body pose-estimation, Image translation, 3D reconstruction.

WORK EXPERIENCE

May 2017 – July 2021

Freelancer Translator [[link](#)]

Acorn Publisher, Seoul, Korea

- Beginning Functional JavaScript 2/e, Anto Aravinth, 2020
- Learning Concurrency in Python, Elliot Forbes, 2018
- Python Data Analysis 2/e, Armando Fandango, 2018

Hanbit Publishing, Seoul, Korea

- Build a Career in Data Science, Jacqueline Nolis, 2021

July 2021 – Aug 2021

2021 Summer Internship [[link](#)]

Kakaobrain Corp., Seongnam, Korea

- Deep Learning and Computer vision
- Hand gesture recognition

Oc 2021 – present

Research Engineer

Kakaobrain Corp., Seongnam, Korea

- Mobile based deep learning
- Human computer vision

Publication

- 「A study to normalize image protocol difference using autoencoder」
Donggwon Kang, **Changhwa Lee**, Sanghun Choi, The Korean Society of Mechanical Engineers, 2020
- 「Generating A Synthetic Multimodal Dataset for Vision Tasks Involving Hand」
Changhwa Lee, Seongyeong Lee, Donguk Kim, Chanyang Jeong, Seungryul Baek, Korea Information Processing Society, 2020
- 「Joint Deep Learning of Hand Locations, Poses and Gestures」
Donguk Kim, Seongyeong Lee, Chanyang Jeong, **Changhwa Lee**, Seungryul Baek, Korea Information Processing Society, 2020
- 「Towards Single 2D Image-level Self-supervision for 3D Human Pose and Shape Estimation」
Junuk Cha, Muhammad Saqlain, **Changhwa Lee**, Seongyeong Lee, Seungeun Lee, Donguk Kim, Won-Hee Park, Seungryul Baek, Journal of Applied Sciences 2021
- 「3D simulation via hand pose estimation and model simplification」
Changhwa Lee, Seongyeong Lee, Donguk Kim, Seungeun Lee, Junuk Cha, Hansol Lee, Yunseong Cho and Seungryul Baek, KIEE Summer Conference 2021
- 「Finger Bendedness Classification from 3D Pose Regression」
Jihyeon Kim, **Changhwa Lee**, Seongyeong Lee, Junuk Cha, Hansoo Park, Donguk Kim and Seungryul Baek, JKAIA, 2021
- 「3DMesh-GAR: 3D human body mesh-based method for group activity recognition」
Muhammad Saqlain, Donguk Kim, Junuk Cha, **Changhwa Lee**, Seongyeong Lee, Seungryul Baek, Sensors 2022 (IF:3.576)
- 「HOREeNet: 3D-aware Hand-Object Grasping Reenactment」
Changhwa Lee, Junuk Cha, Hansol Lee, Seungryul Baek, KAIA Summer Conference, 2022

SKILLS

- Languages** Programming - Python, C/C++,
• Python - Pytorch, OpenCV, Tensorflow, etc
- Awards**
- Mobile App Competition Excellence Award, Kyungpook Nat'l Univ. , 2016
 - Ministerial Award for Social Security Statistics Contest 2nd, Ministry of Health and Welfare, 2018
 - Best Presentation for 4th Industrial Revolution Youth Experience Group Experience Sharing Contest, Daegu , 2019
 - Silver prize at KIPS (Korea Information Processing Society) Fall Conference Paper Awards, 2020