

Hayun Lee

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LinkedIn: linkedin.com/in/hayun-lee/

Research interests Robotics, Computer Vision, Deep Learning

Education **Chung-Ang University** Seoul, Republic of Korea
B.S in Computer Science and Engineering Mar. 2019 – Present
Mentor : Prof. Junseok Kwon

Journal papers **A Study on the Classification of Emotions and the Generation of Custom Paintings based on EEG**
Hayun. Lee, Taemin. Lee*
Journal of Digital Contents Society (JDCS), vol.22, no.10, pp.1577-1586 (KCI)
DOI : [10.9728/dcs.2021.22.10.1577](https://doi.org/10.9728/dcs.2021.22.10.1577)

Research experience **Vision & Learning Lab @ Chung-Ang University**
Research Intern - Mentor: Prof. Eunwoo Kim Dec.2020 – Dec.2021
Research Robot Learning . Study about Robot Deep Learning.

Teaching experience **Teaching Assistant @ Chung-Ang University** Fall 2020
GE-51368: Computational thinking and problem solving
Instructor: *Prof. Kisung Lee*
Scratch mentoring for course students.

Teaching Assistant @ Chung-Ang University Spring 2021 – Present
GE-52431: Understanding SW Programming for Problem Solving
Instructor: *Prof. Kisung Lee*
Python language mentoring for course students.

Project experience **Development of VR Contents to Overcome Cultural Conflicts in the Post-Hybrid Society** Jun.2021 – Present
Funded by National Research Foundation of Korea (NRF)

Learning Transferable Task Knowledge for Social Robots
Funded by Samsung Research Funding Jul.2021 – Dec.2021
& Incubation Center

Personal Project **Outdoor Illumination Estimation using Shadow Information**
Estimating Sun Position from LDR Image. Sep.2021 – Present

Generation Handwritten Fonts using Deep Learning Fall 2021

Input 400 handwritten characters to create 11,175 characters via GAN.

Collaborate with AI: Drug Design Tool Nov.2021

Prediction of Drug Properties via GNN(Solubility, Toxicity, Distribution, Metabolism).

Explain Drug-Drug Interactions via CNN.

Advisor for VDT Jun.2021-Jul.2021

Posture Classification and Analysis using Deep Learning.

Java Lexical & Syntax Analyzer Spring 2021

Implementation of Java Compiler.

Emotional Classification & Painting Rendering System based on

Biological Signals Nov.2020 – Jan.2021

Emotion Classification through EGG and Image Rendering accordingly.

A Local Restaurant Recommendation for CAU students. Jul.2020

Development of Restaurant Recommendation Program Near CAU for CAU

Students through Similarity Analysis.

Honors and
Scholarship

One of the Daewoong's Talent Network Nov. 2021 – Present

Advance to the Finals of the Daewoong Foundation AI/Bigdata Hackathon.

Registered in Daewoong's Talent Network(pool) for Pharmaceutical Innovation

Undergraduate Fellowship

1. SW Specialization Scholarship Spring Spring 2020 – Fall 2021

Research Fellowship funded by Davinci Software Institute at Chung-Ang Univ.

2. University Innovation Support Project Scholarship Summer 2021

Research Fellowship funded by University Innovation Support Project Committee(UISPC)

Skills

Programming

Proficient in: Python

Familiar with: C, Java, C++

Tools

Framework: PyTorch, Tensorflow