# Hayun Lee

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|---|---|
| Research interests | Robotics, Computer Vision |

## 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**
<u>Hayun. Lee</u>, Taemin. Lee[*]
*Journal of Digital Contents Society (**JDCS**), vol.22, no.10, pp.1577-1586* **(KCI)**
DOI : 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: Java, C

**Tools**
Framework: PyTorch, Tensorflow