

# JongHyun Park

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## EDUCATION

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Mar.2020 – Present      School of Integrated Technology, Yonsei University

## RESEARCH EXPERIENCES

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Jan.2024 – Present      Research Intern, at Multimedia Computing and Machine Learning Lab (MCML, Yonsei)  
Advised by Prof.Jongseok Lee

Apr.2023 – Dec.2023      Research Intern, at Intelligent Unmanned Systems Lab (IUS, Yonsei)  
Advised by Prof.Jiwon Seo

## RESEARCH INTERESTS

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My research interests lie in understanding how deep learning models learn and behave. Currently, I am focused on studying the representation space of classification models to gain insight into their decision-making process.

## PROJECTS

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- Sep.2023 – Dec.2023      **Nutrient Intake Tracking Application**
- Developed image pre-processing procedure to increase OCR performance and reduce API response time.
  - Developed backend system with Django, Postgre SQL
  - Adopted Kakao OAuth to support SNS login.
- Sep.2023 – Nov.2023      **Implementing Kernel Threads in XV6 Operating System**
- Implemented thread lock, unlock, exit, and other various system calls for the XV6 OS kernel.
- Jul.2023 – Aug.2023      **Visualizing Decision-Making in Semantic Segmentation Architectures using Grad-CAM**
- Finetuned U-Net, SegFormer on the Oxford-IIIT Pet Dataset.
  - Used Grad-CAM to visualize the mechanism of semantic segmentation architectures.
- Mar.2023 – Apr.2023      **Beat the Brick**
- Developed a simple embedded system that drops blocks off a table with Arduino.

## SKILL SET

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### Programming Languages & Frameworks

- Programming Language : Python, C/C++, Javascript
- Machine Learning Tools : PyTorch, NumPy, OpenCV, Scikit-learn
- Frontend : HTML, CSS, Javascript
- Backend : Django, Node.js, PostgreSQL, SQLite

## HONORS & AWARDS

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- Academic Excellence Award (Top 10%) 1<sup>st</sup> Semester, 2023
- Academic Excellence Award (Top 5%) 2<sup>nd</sup> Semester, 2023