

# Kwonyoung Kim

JOINT M.S & PH.D. STUDENT · YONSEI UNIVERSITY

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## Research Interests

Parameter-Efficient Fine-Tuning, Efficiency gain, Domain Adaptation, Stereo Adaptation, Meta-learning, Video Understanding, Multi-modal

## Education

### Yonsei University

JOINT M.S & PH.D. CANDIDATE, ELECTRICAL AND ELECTRONIC ENGINEERING

- Supervisor: Prof. Kwanghoon Sohn
- Overall GPA: 4.1/4.3

Seoul, S.Korea

Mar. 2020 - Present

### Yonsei University

B.S. IN ELECTRICAL AND ELECTRONIC ENGINEERING

- Major: Electrical and Electronic Engineering
- Overall GPA: 3.39/4.3

Seoul, S.Korea

Mar. 2012 - Jan. 2020

## Publications

### “Faster Parmaeter-Efficient Tuning with Token Redundancy Reduction”

KWONYOUNG KIM, JUNGIN PARK, JIN KIM, HYEONGJUN KWON, KWANGHOON SOHN

- Computer Vision and Pattern Recognition Conference (CVPR 2025).

Jun. 2025

### “PointFix: Learning to Fix Domain Bias for Robust Online Stereo Adaptation”

KWONYOUNG KIM, JUNGIN PARK, JIYOUNG LEE, DONGBO MIN, KWANGHOON SOHN

- European Conference on Computer Vision (ECCV 2022).

Oct. 2022

### “Improving Visual Recognition with Hyperbolical Visual Hierarchy Mapping”

HYEONGJUN KWON, JINHYUN JANG, JIN KIM, KWONYOUNG KIM, KWANGHOON SOHN

- Computer Vision and Pattern Recognition Conference (CVPR 2024).

Jun. 2024

### “TemporalMaxer: Maximize Temporal Context with only Max Pooling for Temporal Action Localization”

TUAN N. TANG, KWONYOUNG KIM, KWANGHOON SOHN

- Arxiv preprint (2023).

Mar. 2023

### “SimOn: A Simple Framework for Online Temporal Action Localization”

TUAN N. TANG, JUNGIN PARK, KWONYOUNG KIM, KWANGHOON SOHN

- Arxiv preprint (2022).

Nov. 2022

## Patent

### Method and Device for Robust Depth Estimation to Domain Shift

KWONYOUNG KIM, KWANGHOON SOHN

- Korea Patent, 10-2021-0177205

Dec. 2021

## Project Experiences

### To create AI systems that act appropriately and effectively in novel situations that occur in open worlds

INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGY PROMOTION (IITP), KOREA

- Developed an algorithm for Online Stereo Adaptation
- Data acquisition with delivery robot and pre-processing

Seoul, S.Korea

Apr. 2020 - Dec. 2021

## Development of Multi-modal Data Fusion and Artificial Social Intelligence for Comprehensive Scene Understanding and Forecasting

Seoul, S.Korea

NATIONAL RESEARCH FOUNDATION OF KOREA (NRF) GRANT FUNDED BY THE KOREA GOVERNMENT

Mar. 2021 - Feb. 2025

- Research for multi-modal data fusion

## Teaching Assistants

Seoul, S.Korea

DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, YONSEI UNIVERSITY

- Electrical and Electronic Engineering Capstone Design, Fall, 2022
- Signals and System, Fall, 2021
- Lab. Internship assistant, Summer, 2021
- Signals and System, Fall, 2020

## Skills

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**Programming** Python, MATLAB, C/C++

**Deep learning** Pytorch, Tensorflow

**Languages** Korean, English

## Work Experience

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### Neurocle Inc.

Seoul, S.Korea

SOFTWARE ENGINEER INTERN

Jun. 2019 - Jan. 2020

- Implemented Class Activation Map function for users and improved performance of the product.