

Sunwoo Yu

School of Undergraduate Studies, College of Transdisciplinary studies
Daegu Gyeongbuk Institute of Science and Technology (DGIST)

RESEARCH INTEREST

- Deep Learning
- Representation Learning
- Efficient Data Compression

PERSONAL DATA

| | | | |
|--------|---------------------|-----------|----------|
| Phone | +82-10-5762-2205 | | |
| E-mail | ysw0920@dgist.ac.kr | | |
| Major | Computer Science | | |
| GPA | 3.98/4.3 | Major GPA | 4.18/4.3 |

EDUCATION

Daegu Gyeongbuk Institute of Science and Technology (DGIST) Mar.2020 — Present

School of Undergraduate Studies, College of Transdisciplinary studies
Bachelor Student

University of California, Los Angeles (UCLA) Jun.2023 — Aug.2023

Exchange Program

PUBLICATIONS

* Equal contributor

2. Daewon Kim, **Sunwoo Yu**, Jaehyeon Lee and Seonghun Lee, "Development of a Driver Monitoring System Using the Capacitive Steering Wheel and FMCW Radar", The Korean Institute of Communications and Information Sciences (KICS) Conference (Fall), Nov. **2024**. (Expected)
1. Jaehyeon Lee*, **Sunwoo Yu***, Daewon Kim, and Kiwon Choi, "Multi-patching: life-log Classification with the Reconstructed Representation of Multivariate Time Series", The 15th International Conference on ICT Convergence (ICTC 2024), pp. 798-803, Oct. **2024**.

RESEARCH EXPERIENCE

• Undergraduate Group Research Program (UGRP) Feb.2024 — Dec.2024

at Department of Brain Sciences, DGIST

(Prof. Hankyoung Choe, DGIST ABC-DGIST)

✓ Design of a radar dataset collection system for subjects' sleep in polysomnography experiments

✓ predicting Heart/Respiratory Rate with radar data & predicting sleep stage using representation from HR/RR

- Undergraduate Research Assistant

Sep.2023 — Nov.2024
- at Department of Electrical Engineering & Computer Science, DGIST

(Prof. Hoonsung Chwa, DGIST RTCL)

✓ **PyTorch Camp** : Learning how to use pytorch by implementing below paper

(LaLaRAND: Flexible Layer-by-Layer CPU/GPU Scheduling for Real-Time DNN Tasks)

✓ **Project** : Real-Time streaming system using foveated rendering

✓ **Experience of editing PyTorch & OpenCV source code**

AWARDS AND HONORS

- KFAS 人才林 Scholarship

Feb.2025 — Feb.2026
- Encouragement Prize, The World Embedded Software Contest 2024, KESSIA

Nov.2024
- Encouragement Prize, Human Understanding AI Paper Challenge 2024, ETRI

Oct.2024
- Director of ETRI(Electronics and Telecommunications Research Institute) Award
- Academic Excellence Award (DGIST)

Spring Semester, 2024
- Academic Excellence Award (DGIST)

Fall Semester, 2023
- Academic Excellence Award (DGIST)

Spring Semester, 2023

SKILLS

- TOEIC:

336/600

valid : Feb.2025 — Feb.2027
- Language:

Python, C/C++
- Tools:

Git, Docker, PyTorch, OpenAI Gym, ModusToolBox