

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 | |
|---|-----------------------|
| 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: | 810/990 |
| Language: | Python, C/C++ |
| Tools: | Git, Docker, PyTorch, OpenAI Gym, ModusToolBox |
| | valid : Aug.2022 — Aug.2024 |