

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 <i>Bachelor Student</i>	
University of California, Los Angeles (UCLA)	Jun.2023 — Aug.2023
<i>Exchange Program</i>	

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