

Hyunwook KANG

Ph.D. Student, The Catholic University of Korea

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BRIEF INTRODUCTION

I am a Ph.D. student at the Catholic University of Korea, where I am advised by [Minji Lee](#). My research involves developing novel skills in human-computer interaction, particularly for multimodal emotion recognition.

RESEARCH INTERESTS

Broad Interests	Multimodal Machine Learning, Explainable AI, Knowledge Distillation
Applications	Affective Computing, Sleep Care, Imagined Speech.

EDUCATION

2025-2029	The Catholic University of Korea, South Korea Ph.D. in Healthcare and Artificial Intelligence
2022-2025	Inha University, South Korea M.S. in Electrical and Computer Engineering
2013-2015	The University of Newcastle, Australia B.S. in Information Technology
2012	Sogang University

RESEARCH INTERNSHIPS

2021-2022	National University of Singapore <i>Research Assistant</i> Zero-shot visual emotion recognition by exploiting BERT Mentored by: Devamanyu Hazarika Paper: https://link.springer.com/chapter/10.1007/978-3-031-16078-3_33
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TEACHING

MAR-JUN 2024	Data Structures in Python
2020-21 2019-20	Data Structures in C

ACADEMIC ACHIEVEMENTS

International Conferences

2025 (Oral)	<i>Multimodal emotion recognition from EEG and ECG signals via parallel fusion of Graph convolution and LSTMs</i> , Hyunwook Kang, M. Lee, EMBC 2025
2025	<i>Phoneme classification in imagined speech using explainable machine learning</i> , S. Kim, Hyunwook Kang , J. H. Jeong, M. Lee, BCI 2025

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| 2024 | Cascading global and sequential temporal representations with local context modeling for EEG-based emotion recognition, Hyunwook Kang , J. W. Choi, B. H. Kim, ICPR 2024 |
| 2022 | Zero-shot visual emotion recognition by exploiting BERT, Hyunwook Kang , D. Hazarika, D. Kim, J. Kim, INTELLISys 2022 |

International Journals

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| 2025 | Convolutional Channel Modulator for Transformer and LSTM Networks in EEG-based Emotion Recognition, Hyunwook Kang , J. W. Choi, B. H. Kim, BIOMED. ENG. LETT. 2025 |
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Domestic Journals

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| 2024 | ConTL: Improving the Performance of EEG-based Emotion Recognition via the Incorporation of CNN, Transformer and LSTM, Hyunwook Kang , B. H. Kim JOK 2024 |
| 2021 | Efficient Visual Sentiment Detector using Knowledge Distillation, Hyun Wook Kang , K. Kim JKIIT 2021 |

RESEARCH IMPACT

Bibliomet- rics	Google Scholar citations: 30 ; h-index: 2
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AWARDS

2025	Outstanding research award from Inha University
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MILITARY SERVICE

2016 - 2018	Gangwon-do, InJe Security guard at the front line of South Korea
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