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Research Interests

Multi-modal Learning, Video Understanding, Audio-Language Understanding, Audio-Visual Speech Processing

My research focuses on **multi-modal learning**, aiming to achieve a **deep understanding** of various modalities to build more comprehensive and intelligent systems. I am expanding my foundational work in **audio-language understanding** to the broader challenges of **video understanding**, alongside advanced **audio-visual speech synthesis**. I address fundamental challenges in imbalanced multi-modal data, designing optimized cross-modal embeddings to enhance both deep comprehension and expressive, controllable synthesis.

Education

Seoul National University Seoul, Korea
Ph.D in Intelligence and Information Sep. 2020 – Aug. 2025
Advisor: Prof. Kyogu Lee

Sookmyung Women's University Seoul, Korea
M.S in Computer Science Mar. 2015 – Feb. 2017
Advisor: Prof. Yoonhee Kim

Sookmyung Women's University Seoul, Korea
B.S in Mathematics and Computer Science Mar. 2010 – Feb. 2015

Work experiences

Korea Institute of Patent Information Daejeon, Korea
Researcher Aug. 2017 – Aug. 2020

Korea Institute of Patent Information Daejeon, Korea
Intern Apr. 2017 – Aug. 2017

Publications

International Conferences

Understanding Audio-Text Retrieval Through Singular Value Decomposition

Yoori Oh, Yoseob Han, Joonhyeon Bae, Jaeheon Sim and Kyogu Lee

ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2025

Speaking Without Sound : Multi-speaker Silent Speech Voicing with Facial Inputs Only

Jaejun Lee, **Yoori Oh** and Kyogu Lee

ICASSP, 2025

Distance Sampling-based Paraphraser Leveraging ChatGPT for Text Data Manipulation

Yoori Oh*, Yoseob Han* and Kyogu Lee

ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2024

Hear Your Face : Face-based voice conversion with F0 estimation

Jaejun Lee, **Yoori Oh**, Injune Hwang and Kyogu Lee

INTERSPEECH, 2024

Semi-supervised Learning for Continuous Emotional Intensity Controllable Speech Synthesis with Disentangled Representations

Yoori Oh, Juheon Lee, Yoseob Han and Kyogu Lee

INTERSPEECH, 2023

Exploring Train and Test-Time Augmentations for Audio-Language Learning

Eungbeom Kim*, Jinhee Kim*, **Yoori Oh**, Kyungsu Kim, Minju Park, Jaeheon Sim, Jinwoo Lee and Kyogu Lee

arxiv, 2022

A Hybrid Cloud Resource Clustering Method Using Analysis of Application Characteristic

Yoori Oh and Yoonhee Kim

IEEE 2nd International Workshops on Foundations and Applications of Self Systems (FAS*W), 2017*

A SLA-based Spark Cluster Scaling Method in Cloud Environment

Yoori Oh, Jieun Choi, Eunjung Song, Moonji Kim and Yoonhee Kim

18th Asia-Pacific Network Operations and Management Symposium (APNOMS), 2016

[International Journals](#)

A Resource Recommendation Method based on Dynamic Cluster Analysis of Application Characteristics

Yoori Oh and Yoonhee Kim

Cluster Computing, 2019

[Patents](#)

METHOD AND APPARATUS FOR AUGMENTING AUDIO-TEXT MULTIMODAL DATA IN TRAIN AND TEST TIME

Kyogu Lee, Jinhee Kim, Eungbeom Kim, **Yoori Oh**, Jaeheon Sim, Jinwoo Lee, Kyungsu Kim and Minju Park

PCT, application number : PCT/KR2023/017075, 2023. 10

**METHOD AND APPARATUS FOR AUGMENTING AUDIO-TEXT
MULTIMODAL DATA IN TRAIN AND TEST TIME**

Kyogu Lee, Jinhee Kim, Eungbeom Kim, **Yoori Oh**, Jaeheon Sim, Jinwoo Lee,
Kyungsu Kim and Minju Park

KR, application number : 10-2023-0146812, 2023. 10

METHOD AND APPARATUS FOR STRUCTURING PATENT CLAIMS

Youngmin Ahn, Hojin Park, Suhyun Oh, Jonghyun Chae, Bong-Gun Lee,
Yoonho Jung, Jaeok Min and **Yoori Oh**

KR, registration number : 10-2181677, 2020. 11

**MOBILE TERMINAL CONTROL METHOD FOR PERSONALIZED DI-
ETARY COACHING**

Yoonhee Kim, Jieun Choi, **Yoori Oh** and Youngran Jeon

KR, registration number : 10-2016263, 2019. 8

**Honors and
scholarships**

Teaching assistance scholarship (Seoul National University)	2024
Brain Korea 21 Plus scholarship	2020 - 2023
Bronze Award (12th open source software developer competition)	2018. 11
Best Presentation Award (KIISE, KSC 2016)	2017. 01
Bronze Best Paper Award (IEEE Student Paper Contest)	2016. 12
Grand Prize (2015 Convergence App Contest)	2015. 12
Best Paper Award (KSII 2015)	2015. 10

Teaching experience

Teaching assistant, Seoul National University	Spring 2024
Course title : From Sound to Meaning (Prof. Kyogu Lee)	