

# Olivier Jiyoun Jung

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## RESEARCH INTERESTS

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My research studies the quality of human conversation — and the points where it breaks down — through speech. I model dialogue from two directions at once: **what** is said, through language and LLM-based analysis, and **how** it is said, through prosody and timing. Each direction captures what the other misses, and reading them together surfaces what neither shows alone: depth and responsiveness in facilitated group dialogue, early traces of cognitive and affective decline in how a person talks, and the shifts in trust and memory that follow when a voice turns out to be synthetic. Working across **Speech and Language Processing**, **Human-AI Interaction**, and **Computational Communication**, I build interpretable models to understand how people communicate, connect, and respond through speech.

## EDUCATION

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| <b>Ewha Womans University</b>               | Seoul, South Korea                    |
| <i>M.A. in Communication &amp; Media</i>    | <i>Mar 2025 – Aug 2027 (Expected)</i> |
| Advisor: Prof. Jiyoung Kang · GPA: 4.44/4.5 |                                       |

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| <b>University of Applied Sciences and Arts Northwestern Switzerland</b> | Basel, Switzerland         |
| <i>Exchange Student, Applied Science</i>                                | <i>Aug 2023 – Feb 2024</i> |

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| <b>Ewha Womans University</b>                                     | Seoul, South Korea         |
| <i>B.A. in Communication &amp; Media, Scranton Honors Program</i> | <i>Mar 2021 – Feb 2025</i> |
| GPA: 4.32/4.5 · <i>Summa Cum Laude</i>                            |                            |

## RESEARCH EXPERIENCE

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| <b>MIT Media Lab</b>                                                | Cambridge, MA, USA        |
| <i>Research Collaborator, Center for Constructive Communication</i> | <i>May 2026 – Present</i> |

- Operationalizing interpersonal communication constructs — self-disclosure, partner responsiveness, narrative structure — as measurable features of group dialogue
- Leading the audio analysis, building a speech pipeline (MFA, WhisperX, acoustic features) to test how prosody complements text-based measures

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| <b>NAVER Cloud</b>                                                    | Seongnam, South Korea      |
| <i>AI Research Scientist Intern, HCX Application AI Modeling Team</i> | <i>Nov 2025 – May 2026</i> |

- Developed speech AI and LLM systems, with focus on extracting discourse and conversational features

to improve model performance

- Implemented and fine-tuned deep learning models in PyTorch for speech and language processing

**Ewha Womans University**

Seoul, South Korea

*Graduate Research Assistant, Division of Communication & Media*

*Mar 2025 – Present*

- Conducting independent research on AI-mediated communication and computational media analysis
- Collaborating on interdisciplinary research at the intersection of communication studies and AI

## PUBLICATIONS

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<sup>†</sup>Equal contribution    \*Corresponding author

- [1] **Jung, O. J.**, & Youk, S.\* (2026). South Korean V-Tuber Visual Conventions within Korea–Japan Cultural Circuits. *Asian Communication Research*, 23(2), Article 014. [\[DOI\]](#)
- [2] **Jung, O. J.**<sup>†</sup>, Park, J.<sup>†</sup>, & Oh, M.\* (2026). Listening Between the Lines: Joint Learning of ASR Embeddings and LLM-Augmented Linguistics for Dementia Detection. Accepted at *INTERSPEECH 2026*. [\[arXiv\]](#)
- [3] Park, J.<sup>†</sup>, **Jung, O. J.**<sup>†</sup>, & Oh, M.\* (2026). LoRA-Tuned Large Language Models for Dementia Detection via Multi-View Speech-Derived Features. Accepted at *INTERSPEECH 2026*. [\[arXiv\]](#)
- [4] Youk, S., **Jung, O. J.**, Jie, Y., & Lee, S. K.\* (2026). Comparing Neural Responses to Human and Social Robot Interlocutors: An EEG Study on CASA and Perceived Pleasantness, Importance, and Cooperativeness. Paper presented at *International Communication Association (ICA) 76th Annual Conference*.
- [5] **Jung, O. J.**, & Youk, S.\* (2025). Analyzing V-Tuber Visual Tropes in South Korea Through Korea–Japan Media Circuits. Paper presented at *National Communication Association (NCA) 111th Annual Convention*.

## Under Review

- [6] **Jung, O. J.** (2027). Hearing Is Not Remembering: Labeled AI Exposure Protects Memory Without Improving Discrimination of Deepfake Audio. *ACM CHI Conference on Human Factors in Computing Systems (CHI 2027)*.
- [7] Youk, S., **Jung, O. J.**, Jie, Y., & Lee, S. K.\* (2026). Toward a Neurocognitive Account of CASA: EEG Evidence from Human and ChatGPT-Enabled Social Robot Conversation. *Computers in Human Behavior*.

## Work in Progress

- [8] Youk, S., Kim, H., **Jung, O. J.**, & Kim, Y.\* (2026). How Policy Shapes Media Narratives of Environmental Risk: A Nine-Year Analysis of Particulate Matter News Coverage in South Korea.

*Manuscript under revision for resubmission.*

[9] Meme Politics: Effects of AI-Generated Short-Form Content on Young Voters in South Korea. *Manuscript in preparation.*

[10] End-to-end Multimodal Explanation Generation for Audio Deepfake Detection. *Manuscript in preparation.*

[11] Multimodal Depression Detection from Clinical Interviews via Speech-Text Feature Fusion. *Manuscript in preparation.*

TEACHING EXPERIENCE

Ewha Womans UniversitySeoul, South Korea

Teaching Assistant, “Communication and Society”2025

HONORS & AWARDS

|           |                                                       |                                    |
|-----------|-------------------------------------------------------|------------------------------------|
| 2025–2026 | Excellence Ewha-in Scholarship (\$10,000)             | Ewha Womans University             |
| 2025      | Summa Cum Laude                                       | Ewha Womans University             |
| 2025      | Student Travel Grant, NCA 111th Annual Convention     | National Communication Association |
| 2024      | Departmental Academic Excellence Scholarship          | Ewha Womans University             |
| 2023      | FHNW International Merit Scholarship                  | FHNW Switzerland                   |
| 2022      | Excellence Award, 5th Investigative Reporting Contest | Korea News Agency Commission       |
| 2021–2025 | Highest Honors (all semesters)                        | Ewha Womans University             |

LEADERSHIP & ACTIVITIES

ALSA (Asian Law Students’ Association)

Local Chapter President, Ewha Womans University2022 – 2023

- Organized a special seminar on AI and technology law reform
- Coordinated cross-national collaboration among Asian chapters
- Led chapter recognized as Best Chapter during tenure

YJS Journalism School

Student Reporter2022 – 2023

Scranton College Student Council, Ewha Womans University

## VOLUNTEERING

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### Korea Association for Ethical Organ Transplants

Translator

2022 – 2024

## HOBBIES

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Music (Vocalist, Bassist, Producer) · Skiing (Korea Ski Instructor Level 1)

## TECHNICAL SKILLS

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**Programming:** Python, R, JavaScript, LaTeX

**Machine Learning:** PyTorch, Deep Learning, NLP, Computer Vision, LLM Fine-tuning, Speech Processing

**Research Tools:** SPSS, PsychoPy, EEG, Unreal Engine (VR)

**Other:** Ableton Live, Melodyne, Logic Pro, Adobe Photoshop, Microsoft Office

## LANGUAGES

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English (Native/Bilingual) · Korean (Native/Bilingual) · Japanese (Elementary)