

Eunjung Yeo

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EDUCATION

Seoul National University <i>Ph.D. in Linguistics (Spoken Language Processing)</i>	Mar. 2021 - Aug. 2024 GPA: 4.24/4.3
Seoul National University <i>M.A. in Linguistics (Spoken Language Processing)</i>	Mar. 2019 - Feb. 2021 GPA: 4.18/4.3
Yonsei University <i>B.A. in Korean Language and Literature, Double Major in Psychology</i>	Mar. 2014 - Aug. 2018 GPA: 4.03/4.3 (Rank 2/71)
Ewha Girls' Foreign Language High School <i>English Major, Chinese Minor</i>	2011 - 2014

RESEARCH EXPERIENCE

CMU ChangeLing Lab (Visiting Scholar) <i>Research on cross-lingual intelligibility assessment, inclusive ASR for pathological speech, and computational linguistic analysis of self-supervised learning (SSL) representations. Advised by Prof. David Mortensen.</i>	Feb. 2024 – Present
CMU PhIT Lab (Researcher, Mentor) <i>Research on acoustic analysis of fricative production in dysarthric speech. Mentor for Summer Undergraduate Research Apprenticeship (SURA). Advised by Prof. Christina Bjorndahl.</i>	Feb. 2024 – Present
SNU SLP Lab (Master's Student, Ph.D. Student) <i>Research on automatic speech assessment for pathological and non-native speech. Advised by Prof. Minhwa Chung.</i>	Mar. 2019 – Aug. 2024
Yonsei Dept. of Speech-Language Pathology (Graduate Research Assistant) <i>Collected and analyzed cognitive, speech, and swallowing data from healthy elderly participants. Advised by Prof. HyangHee Kim.</i>	Mar. – Aug. 2018
Yonsei Institute of Language and Information Studies (Undergraduate RA) <i>Drafted a Korean digital dictionary and collected L2 Korean writing data.</i>	2017 – 2018
Yonsei Human Development Lab (Undergraduate RA) <i>Collected behavioral data on children's language and moral development.</i>	2015 – 2017

PUBLICATIONS

Peer-reviewed papers

- [**Interspeech 2025**] C-J Li*, **E Yeo***, K Choi, P Pérez-Toro, M Someki, R.K. Das, Z. Yue, J. R. Orozco-Arroyave, Elmar Nöth, D Mortensen. Towards Inclusive ASR: Investigating Voice Conversion for Dysarthric Speech Recognition in Low-Resource Languages.
- [**NAACL 2025**] K Choi, **E Yeo**, K Chang, S Watanabe, D Mortensen. Allophonic Representations in Self-Supervised Speech Models for Out-of-Distribution Detection in Atypical Speech Pronunciation Assessment.
- [**ICLR 2025**] C Huang, W Chen, S Yang, A T Liu, C-A Li, Y-X Lin, W-C Tseng, A Diwan, Y-J Shih, J Shi, W Chen, X Chen, C-Y Hsiao, P Peng, S-H Wang, C-Y Kuan, K-H Lu, K-W Chang, C-K Yang, F Ritter-Gutierrez, M T Chuang, K-P Huang, S Arora, Y-K Lin, **E Yeo**, ..., H Li. Dynamic-superb phase-2: A collaboratively expanding benchmark for measuring the capabilities of spoken language models with 180 tasks.
- [**Interspeech 2023**] **E Yeo***, K Choi*, S Kim, M Chung. Speech Intelligibility Assessment of Dysarthric Speech by using Goodness of Pronunciation with Uncertainty Quantification.
- [**ICPhS 2023**] **E Yeo***, H Ryu*, J Lee, S Kim, M Chung. Comparison of L2 Korean Pronunciation Error Patterns from Five L1 Backgrounds by using Automatic Phonetic Transcription.
- [**ICASSP 2023**] **E Yeo***, K Choi*, S Kim, M Chung. Automatic Severity Classification of Dysarthric speech by using Self-supervised Model with Multi-task Learning.
- [**Phonetics and Speech Sciences**] S Lee, **E Yeo**, S Kim, M Chung. Knowledge-driven speech features for detection of Korean-speaking children with autism spectrum disorder.
- [**APSIPA ASC 2022**] **E Yeo**, K Choi, S Kim, M Chung. Cross-lingual Dysarthria Severity Classification for English, Korean, and Tamil.

[**Oriental COCOSDA 2022**] **E Yeo**, K Choi, S Kim, M Chung. Multilingual analysis of intelligibility classification using English, Korean, and Tamil dysarthric speech datasets. (best student paper)

[**Interspeech 2021**] A Hernandez, **E Yeo**, S Kim, M Chung. Automatic Severity Classification of Korean Dysarthric Speech Using Phoneme-Level Pronunciation Features.

[**Phonetics and Speech Sciences**] **E Yeo**, S Kim, M Chung. Automatic severity classification of dysarthria using voice quality, prosody, and pronunciation features.

[**Interspeech 2020**] A Hernandez, **E Yeo**, S Kim, M Chung. Dysarthria Detection and Severity Assessment Using Rhythm-Based Metrics.

Non peer-reviewed papers

[**Under Review**] **E Yeo**, J Liss, V Berisha, D Mortensen. Applications of Artificial Intelligence for Cross-language Intelligibility Assessment of Dysarthric Speech.

[**Arxiv**] K Choi*, **E Yeo***. Opening the Black Box of wav2vec Feature Encoder.

PROJECTS

Development of Digital Therapeutics to Improve Communication Skills of Autistic Patients	Sep. 2022 – 2024
Korean Institute for Information & Communication Technology Planning & Evaluation <i>Developed an automatic detection system for children with autism.</i>	
Acquiring and Utilizing Audio Big Data for Healthcare Service Design	Sep. 2021 – 2023
Korean Ministry of Science and ICT <i>Designed a speech corpus of chronic kidney disease patients & developed an automatic detection and severity classification system for chronic kidney disease patients.</i>	
Korean Speech Data for Western and Asian Language Users for Language Education	Sep. – Nov. 2022
Korean National Information Society Agency <i>Trained an automatic phonetic transcription model & pronunciation proficiency assessment toolkit for L2 English Korean speakers.</i>	
Multilingual Speech Data Collection for L2 Korean Learners	Jul. – Nov. 2022
Korean National Information Society Agency <i>Trained an automatic phonetic transcription model for L2 Korean speech.</i>	
Development of Intelligent Tool-Based Content Production and Enjoyment Support Technology Considering the Accessibility of the Weak in Social Communication	Sep. 2019 – 2021
Korean National Information Society Agency <i>Developed an automatic speech recognition system for children with autism.</i>	
A Study on the French Vowel Speech of Korean Learners	Aug. – Sep. 2019
Seoul National University <i>Collected speech & nasometer measurements from L2 French Korean speakers.</i>	

GRANTS AND SCHOLARSHIPS

Youlchon AI Young Researcher Scholarship Youlchon AI Scholarship	2023
Travel Grant College of Humanities, Seoul National University	Interspeech 2023
Travel Grant Linguistics Department, Seoul National University	ICPhS 2023
GSI Scholarship Linguistics Department, Seoul National University	Spring 2023
Subsequent Generations of Basic Studies Seoul National University	Spring 2021 – Fall 2022
Subsequent Generations of Basic Studies Seoul National University	Spring – Fall 2020
SNU CORE Academic Funding Seoul National University	Spring – Fall 2019
College of Liberal Arts Alumni Association Scholarship Yonsei University	Fall 2014
National Grant for Academic Excellence Korea Student Aid Foundation	Spring 2016
Scholarship for Academic Excellence Yonsei University	Spring 2015 – Fall 2016, Fall 2017

AWARDS

Silver Award @ Hackathon	2022
<i>Project: Analysis on L2 Korean speech data from Western and Asian speakers for Language Education</i>	
<i>Organizers: Korean Ministry of Science and ICT, Korea National Information Society Agency, SNU AI Education Research Center, NS Devil</i>	
Best Student Paper @ Oriental COCODA	2022
<i>Paper: Multilingual Analysis of Intelligibility Classification using English, Korean, and Tamil dysarthric speech datasets.</i>	
Grand Prize @ AI data-based service contest, “I can see your A.Idea”	2021
<i>Project: Automatic Screening of Cognitive Decline using Acoustic Features</i>	
<i>Organizer: Korean National Information Society Agency (NIA)</i>	
Academic excellence award (top 1%) @ Yonsei University	Spring 2014; Spring 2017
Academic excellence award (top 10%) @ Yonsei University	Fall 2015; Spring 2016; Fall 2017

TEACHING

Mentorship

- Kexin Jin, Pratham Madaram (CMU Cognitive Science undergraduates)
 - Acoustic analysis of fricatives in dysarthric speechSummer 2025
- Alexander Metzger, Aruna Srivastava (UW CS undergraduates)
 - Fairness in ASR for L2 speech performance2025–Present
- Chin-Jou Li (CMU LTI Master’s student)
 - Inclusive ASR for dysarthric speech2024–Present
- Ji Young Choi (Columbia University Ph.D. student)
 - ASR applications for clinical useJan–May 2025
- Graduate–undergraduate mentoring, Seoul National University
- Undergraduate–high school mentoring, Yonsei University

Teaching Assistant

- Introduction to Speech and Language Processing
- Introduction to Computational Linguistics
- Bilingualism
- Introduction to Linguistics

Invited Talks

- Introducing OpenAI Whisper @ Korea Development Bank; Korean National Police University
- Cross-lingual Dysarthria Severity Classification for English, Korean, and Tamil @ SNU

SERVICES

Reviewer <i>Interspeech, ICASSP, ARR, TASL, JSLHR, SLaTE</i>	
General Affairs <i>Linguistic Research Society, Seoul National University</i>	2021 – 2022
Volunteer <i>Hearing Rehabilitation Center KT Dream Class, Severance Hospital</i>	2017
College Residents’ Association <i>Yongjae House, Yonsei University</i>	2014

SKILLS

Teaching Certificate	Korean Language & Literature (Yonsei University #11792)
Languages	Korean (native), English (fluent), Chinese (beginner), German (reading)
Machine Learning Libraries	PyTorch, Huggingface
Data Analytics	SciPy, SPSS, matplotlib, pandas