

# Eunjung Yeo

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## EDUCATION

<b>Seoul National University</b> <i>Ph.D. in Linguistics (Spoken Language Processing)</i>	Mar. 2021 - Aug. 2024 GPA: 4.24/4.3
<b>Seoul National University</b> <i>M.A. in Linguistics (Spoken Language Processing)</i>	Mar. 2019 - Feb. 2021 GPA: 4.18/4.3
<b>Yonsei University</b> <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)
<b>Ewha Girls' Foreign Language High School</b> <i>English Major, Chinese Minor</i>	2011 - 2014

## RESEARCH EXPERIENCE

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

## PUBLICATIONS

- [**Perspectives of the ASHA Special Interest Groups**] E Yeo, J Liss, V Berisha, D Mortensen. Applications of Artificial Intelligence for Cross-language Intelligibility Assessment of Dysarthric Speech.
- [**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.

## PROJECTS

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

## GRANTS AND SCHOLARSHIPS

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

## AWARDS

<b>Silver Award @ Hackathon</b>	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>	
<b>Best Student Paper @ Oriental COCODA</b>	2022
<i>Paper: Multilingual Analysis of Intelligibility Classification using English, Korean, and Tamil dysarthric speech datasets.</i>	
<b>Grand Prize @ AI data-based service contest, “I can see your A.Idea”</b>	2021
<i>Project: Automatic Screening of Cognitive Decline using Acoustic Features</i>	
<i>Organizer: Korean National Information Society Agency (NIA)</i>	
<b>Academic excellence award (top 1%) @ Yonsei University</b>	Spring 2014; Spring 2017
<b>Academic excellence award (top 10%) @ Yonsei University</b>	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

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

## SKILLS

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