

Eunjung Yeo

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EDUCATION

Carnegie Mellon University <i>Visiting scholar at Language Technologies Institute</i>	Feb. 2024 - Current
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 LTI ChangeLing Lab (Visiting Scholar) <i>Research on computational linguistics focusing on phonetics and phonology Contributor on Korean G2P in EpiTran Contributor of Phonetics, Phonology, and Prosody tasks in Dynamic-Superb Phase-2 Advised by Prof. David Mortensen</i>	Feb. 2024 – Current
SNU SLP Lab (Masters Student, Ph.D. Student) <i>Research on automatic speech assessment on pathological speech & nonnative speech Advised by Prof. Minhwa Chung</i>	Mar. 2019 – Aug. 2024
Yonsei Department of Speech-Language Pathology (Graduate Student RA) <i>Collected and Analyzed cognitive, speech, swallowing data from healthy elderly individuals. Advised by Prof. HyangHee Kim</i>	Mar. – Aug. 2018
Yonsei Institute of Language and Information Studies (Undergraduate RA) <i>Drafted Korean digital dictionary & Collected L2 Korean writing data.</i>	2017 – 2018
Yonsei Human Development Lab (Undergraduate RA) <i>Collected children's behavior data (language development, moral development).</i>	2015 – 2017

SELECTED FIRST-AUTHOR PUBLICATIONS

Conferences

- [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.
- [APSIPA ASC 2022] E Yeo, K Choi, S Kim, M Chung. Cross-lingual Dysarthria Severity Classification for English, Korean, and Tamil.
- [Oriental COCODA 2022] E Yeo, K Choi, S Kim, M Chung. Multilingual analysis of intelligibility classification using English, Korean, and Tamil dysarthric speech datasets.
- [Interspeech 2021] E Yeo, S Kim, M Chung. Automatic Severity Classification of Korean Dysarthric Speech Using Phoneme-Level Pronunciation Features.

Journals

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

Non peer-reviewed papers

- K Choi*, E Yeo*. Opening the Black Box of wav2vec Feature Encoder.

PROJECTS

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

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 <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>	2022
Best Student Paper @ Oriental COCOSDA <i>Paper: Multilingual Analysis of Intelligibility Classification using English, Korean, and Tamil dysarthric speech datasets.</i>	2022
Grand Prize @ AI data-based service contest, “I can see your A.Idea” <i>Project: Automatic Screening of Cognitive Decline using Acoustic Features</i> <i>Organizer: Korean National Information Society Agency (NIA)</i>	2021
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

Teaching Assistant

- Introduction to Speech and Language Processing Spring 2023
- Introduction to Computational Linguistics Spring 2022
- Bilingualism Spring 2021; Fall 2021; Fall 2022
- Introduction to Linguistics Spring 2020; Fall 2020

Invited Talks

- Introducing OpenAI Whisper @ Korea Development Bank; Korean National Police University 2023
- Cross-lingual Dysarthria Severity Classification for English, Korean, and Tamil @ SNU 2022

Mentorship

- Graduate-Undergraduate student mentoring @ SNU 2019
- Undergraduate-High school student mentoring @ Yonsei University 2017

SERVICES

Reviewer | *Interspeech (2024-), ICASSP (2025-), ACL (2024), JSLHR (2024)*

General Affairs | *Linguistic Research Society, Seoul National University*

2021 – 2022

Volunteer | *Hearing Rehabilitation Center KT Dream Class, Severance Hospital*

2017

College Residents' Association | *Yongjae House, Yonsei University*

2014

SKILLS

Teaching Certificate

Korean Language & Literature (Yonsei University #11792)

Languages

Korean (native), English (fluent), Chinese (intermediate), German (reading)

Machine Learning Libraries

PyTorch, Keras, Huggingface

Data Analytics

matplotlib, SciPy, pandas, SPSS