Eunjung Yeo

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EDUCATION

Seoul National University   Mar. 2021 – Aug. 2024
Ph.D. in Linguistics (Spoken Language Processing)   *GPA: 4.24/4.3*

Seoul National University   Mar. 2019 – Feb. 2021
M.A. in Linguistics (Spoken Language Processing)   *GPA: 4.18/4.3*

Yonsei University   Mar. 2014 – Aug. 2018
B.A. in Korean Language and Literature, Double Major in Psychology   *GPA: 4.03/4.3 (Rank 2/71)*

Ewha Girls' Foreign Language High School   2011 – 2014
English Major, Chinese Minor

RESEARCH EXPERIENCE

UT Austin SALT Lab   June 2024 – Present
Visiting Scholar; Advisor: Prof. David Harwath

Multilingual assessment of dysarthric speech; TTS for pathological speech reconstruction; Computational linguistic analysis of SSL representations.

CMU ChangeLing Lab   Feb. 2024 – June 2024
Visiting Scholar; Advisor: Prof. David Mortensen

Multilingual intelligibility assessment; Inclusive ASR for pathological speech; Computational linguistic analysis of SSL representations.

CMU PhIT Lab   Feb. 2024 – June 2024
Visiting Scholar; Advisor: Prof. Christina Bjorndahl

Acoustic analysis on dysarthric speech; Mentor of Summer Undergraduate Research Apprenticeship.

SNU SLP Lab   Mar. 2019 – Aug. 2024
Master's Student, Ph.D. Student; Advisor: Prof. Minhwa Chung

Automatic speech assessment for pathological and non-native speech.

Yonsei Dept. of Speech-Language Pathology   Mar. – Aug. 2018
Graduate RA; Advisor: Prof. Hyanghee Kim

Collected and analyzed cognitive, speech, and swallowing data from healthy elderly participants.

Yonsei Institute of Language and Information Studies   2017 – 2018
Undergraduate RA

Drafted a Korean digital dictionary and collected L2 Korean writing data.

Yonsei Human Development Lab   2015 – 2017
Undergraduate RA

Collected behavioral data on children's language and moral development.

PUBLICATIONS

[**Preprint**] C-J Li*, K Chang*, S Bharadwaj, **E Yeo**, K Choi, J Zhu, D Mortensen, S Watanabe. POWSM: A Phonetic Open Whisper-Style Speech Foundation Mode.

[**Preprint**] K Rosero, **E Yeo**, D R Mortensen, C Van't Slot, R R Hallac, C Busso. Finding My Voice: Generative Reconstruction of Disordered Speech for Automated Clinical Evaluation.

[**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**] B Yan, I Hamed, S Shimizu, V Lodagala, W Chen, O Iakovenko, B Talafha, A Hussein, A Polok, K Chang, D Klement, S Althubaiti, P Peng, M Wiesner, T Solorio, A Ali, S Khudanpur, S Watanabe, C-C Chen, Z Wu, K Benharrak, A Diwan, S Cornell, **E Yeo**, K Choi, C Carvalho, K Rosero. CS-FLEURS: A Massively Multilingual and Code-Switched Speech Dataset.

[**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

Development of Digital Therapeutics to Improve Communication Skills of Autistic Patients   Sep. 2022 – 2024
Korean Institute for Information & Communication Technology Planning & Evaluation
   Developed an automatic detection system for children with autism.

Acquiring and Utilizing Audio Big Data for Healthcare Service Design   Sep. 2021 – 2023
Korean Ministry of Science and ICT
   Designed a speech corpus of chronic kidney disease patients & developed an automatic detection and severity classification system for chronic kidney disease patients.

Korean Speech Data for Western and Asian Language Users for Language Education   Sep. – Nov. 2022
Korean National Information Society Agency
   Trained an automatic phonetic transcription model & pronunciation proficiency assessment toolkit for L2 English Korean speakers.

Multilingual Speech Data Collection for L2 Korean Learners   Jul. – Nov. 2022
Korean National Information Society Agency
   Trained an automatic phonetic transcription model for L2 Korean speech.

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
   Developed an automatic speech recognition system for children with autism.

A Study on the French Vowel Speech of Korean Learners   Aug. – Sep. 2019
Seoul National Unversity
    Collected speech & nasometer measurements from L2 French Korean speakers.

GRANTS

Automated Multilingual Tool for Phoneme Assessment in Dysarthric Speech Care $ 30,000
Texas Health Catalyst, Dell Medical Schoo, UT Austin
    project lead; PIs: David Harwath (UT Austin), Jun Wang (UT Austin)

**A Novel Assistive Communication Technology – Restoring communication for patients with
lost or impaired speech**   –
Proof of Concept Awards, Discovery to Impact, UT Austin (finalist)
    project lead; PIs: David Harwath (UT Austin), Carlos Busso (CMU), Karen Rosero (CMU)

AI-driven cross-linguistic assessment of dysarthria   –
NIH NIDCD R21 (submitted, not funded)
    co-investigator; PIs: David R. Mortensen (CMU), Julie M. Liss (ASU), Visar Berisha (ASU)

SCHOLARSHIPS

Youlchon AI Young Researcher Scholarship | Youlchon AI Scholarship   KRW 8,000,000 (2023)
Travel Grant | College of Humanities, Seoul National University   Interspeech 2023
Travel Grant | Department of Linguistics, Seoul National University   ICPhS 2023
GSI Scholarship | Department of Linguistics, 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
    Project: Analysis on L2 Korean speech data from Western and Asian speakers for Language Education.
    Organizers: Korean Ministry of Science and ICT, Korea National Information Society Agency, SNU AI Education
Research Center, NS Devil
Best Student Paper @ Oriental COCOSDA   2022
    Paper: Multilingual Analysis of Intelligibility Classification using English, Korean, and Tamil dysarthric speech
datasets.
Grand Prize @ AI data-based service contest, "I can see your A.Idea"   2021
    Project: Automatic Screening of Cognitive Decline using Acoustic Features.
    Organizer: Korean National Information Society Agency (NIA)
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
- Alexander Metzger, Aruna Srivastava (UW CS)   2025–Present
    Project: Fairness in ASR performance in L2 speech
- Kexin Jin (CMU, Cognitive Science)   May 2025–Present
    Project: Acoustic analysis of fricatives in dysarthric speech
- Chin-Jou Li (CMU, LTI)   2024–Present

Project: Inclusive ASR for dysarthric speech; Large-scale phone recognition

- Pratham Madaram (CMU, Cognitive Science) — May–Aug. 2025
  Project: Acoustic analysis of fricatives in dysarthric speech
- Ji Young Choi (Columbia University, CSD) — Jan–May 2025
  Project: ASR applications for clinical use
- Graduate–undergraduate mentoring, (Seoul National University) — 2019
- Undergraduate–high school mentoring, (Yonsei University) — 2017

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

SERVICES

Reviewer | Interspeech, ARR, TASL, JSLHR, SLaTE	
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 (beginner), German (reading)
Machine Learning Libraries	PyTorch, Huggingface
Data Analytics	SciPy, SPSS, matplotlib, pandas