

ABNER HERNANDEZ

LINGUIST

CONTACT

PHONE

+82 010-9996-5601

EMAIL

abner1724@gmail.com

SKILLS

Python

Pytorch

TensorFlow

Scikit-learn

Praat

Kaldi

R

LANGUAGES

English

Spanish

Korean

LINKS

[LinkedIn](#)

[Research Gate](#)

[GitHub](#)

[Personal Website](#)

PROFILE

Passionate and motivated linguist with an interest in linguistics, speech recognition and all machine learning applications to linguistics and speech science.

EXPERIENCE

Laboratory Researcher, Spoken Language Processing Lab

Seoul

Jan 2019 – Sept 2020

- Linguistic analysis of dysarthric speech.
- Improving dysarthric speech recognition.
- Develop machine learning-based classifiers for detecting dysarthria or assessing severity levels.
- Research on improving speech intelligibility with speech synthesis-based voice conversion or voice cloning.

Research Assistant, Language and Brain Lab

Burnaby

Aug 2015 - Jun 2017

- Data organization or extraction.
- Linguistics annotation or alignments.
- Experimental stimuli preparation.

EDUCATION

MA Linguistics, Seoul National University

Seoul

Sept 2018 - Aug 2020

Focus on computational linguistics, speech recognition, dysarthric speech and phonetics.

Thesis Title: *Automatic Detection and Assessment of Dysarthric Speech using Prosody-Based Measures*

BA (Honours) Linguistics, Simon Fraser University

Burnaby

Sept 2013 - Jun 2017

Focus on phonetics, psycholinguistics and neurolinguistics. Also minored in psychology with a focus on cognitive science.

AWARDS & PUBLICATIONS

- A. Hernandez, E.J. Yeo, S.H. Kim and M.H. Chung "Dysarthria Detection and Severity Assessment using Rhythm-Based Metrics," in INTERSPEECH 2020 – 21th Annual Conference of the International Speech Communication Association, October 25-29, Shanghai, China, Proceedings, (to appear 2020)
- Hernandez, A., & Chung, M. (2019). Dysarthria Classification Using Acoustic Properties of Fricatives. Proceedings of the 2019 Seoul International Conference on Speech Sciences, 43-44.
- Hernandez, A., Lee, H. Y., & Chung, M. (2019). Acoustic analysis of fricatives in dysarthric speakers with cerebral palsy. *Phonetics and Speech Sciences*, 11(3), 23-29.
- Korean Government Scholarship Program (2017-2020)