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 computational linguistics, speech recognition, natural language processing and all machine learning applications to linguistics and speech science.

EXPERIENCE

Data Linguist - Independent contractor for 42Maru Inc. Seoul

Sept 2020 – Current

- Help build datasets for training machine learning-based models.
- Text summarization of financial articles via doccano.

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.

PUBLICATIONS

[1] A. Hernandez, E.J. Yeo, S.H. Kim and M.H. Chung “Dysarthria Detection and Severity Assessment using Rhythm-Based Metrics,” in INTERSPEECH 2020 (to appear)

[2] Hernandez, A., & Chung, M. (2019). Dysarthria Classification Using Acoustic Properties of Fricatives. Proceedings of the 2019 Seoul International Conference on Speech Sciences, 43-44.

[3] 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.