Abner Hernandez

Seoul, South Korea
Vancouver, Canada
+82 (010) 9996-5601
abner1724@gmail.com

Computational Linguist

Recently graduated linguist with experience in natural language processing, speech recognition and machine learning methods for linguistics and speech science.

EXPERIENCE

42Maru Inc (Contractor), Seoul – *Data Linguist*

Sept 2020 - PRESENT

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

Spoken Language Processing Lab, Seoul – *Speech Researcher*

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.

Language and Brain Lab, Vancouver – *Research Assistant*

Aug 2015 - Jun 2017

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

EDUCATION

Seoul National University, South Korea – *Master Linguistics*

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*

Simon Fraser University, Canada – *Bachelor Linguistics (Honours)*

Sept 2013 - June 2017

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

Thesis Title: *Late and Early Bilingual Perception of Korean Stop and Affricate Contrasts*

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.

SKILLS

Python, Pytorch, TensorFlow, Scikit-learn, Praat, Kaldi, R

LINKS

LinkedIn

GitHub

Research Gate

Personal Website

LANGUAGES

English, Spanish, Korean