

Abner Hernandez

Seoul, South Korea
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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 – MA 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 – BA Linguistics (Honours)

Sept 2013 - June 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.

SKILLS

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

Links

[LinkedIn](#)

[GitHub](#)

[Research Gate](#)

[Personal Website](#)

LANGUAGES

English, Spanish,
Korean