

# 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

I am a linguist who is interested in speech recognition and disordered speech, but also any machine learning application to linguistics and speech science.

## EXPERIENCE

### Laboratory Researcher, Spoken Language Processing Lab

Seoul

Jan 2019 – Present

I currently work on projects related to dysarthria. My tasks involve:

- Linguistic analysis of dysarthric speech.
- Improving dysarthric speech recognition.
- Develop machine learning-based classifiers for detecting or 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

In general my responsibility was to help Ph.D students with their projects and experiments.

These tasks include:

- Data organization or extraction.
- Annotation or alignments.
- Experimental stimuli preparation.

## EDUCATION

### MA Linguistics, Seoul National University

Seoul

Sep 2018 - Present

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

### BA (Honours) Linguistics, Simon Fraser University

Burnaby

Sep 2013 - Jun 2017

My focus was on phonetics and took courses related to psycholinguistics and neurolinguistics. Also minored in psychology with a focus on cognitive science.

## AWARDS & PUBLICATIONS

- Abner Hernandez, Ho-Young Lee & Minhwa Chung (2019). Acoustic analysis of fricatives in dysarthric speakers with cerebral palsy. *Phonetics and Speech Sciences*. 11(3), 23-29.
- Abner Hernandez & Minhwa Chung (2019). Dysarthria Classification Using Acoustic Properties of Fricatives. *Proceedings of the 2019 Seoul International Conference on Speech Sciences*, 43-44.
- Korean Government Scholarship Program (2017-2020)