# YooHwan **Kwon**

MS Student · Electrical & Electronic Engineering

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## Interests

**Speeach Signal Processing**

Speaker recognition, Diarization, Machine learning, representation learning

## Education

**Yonsei University**                                                            *Seoul, Korea*

M.S. in Electrical Electronic Engineering                                        *Mar. 2019 - Present*

- Digital Signal Processing & Artificial Intelligence (DSP&AI) Lab.(Prof. Hong-Goo Kang)
- Major : Speech signal processing, Deep learning

**University of Seoul**                                                          *Seoul, Korea*

B.S. in Electrical Computer Engineering                                          *Mar. 2011 - Feb. 2017*

- GPA : 3.96 / 4.5
- Half-tuition Scholarship for academic excellence (Spring,2015)
- Full-tuition Scholarship for academic excellence (Fall,2015)

## Experience

**Naver Corperation**                                                            *Gyeonggi-do, Korea*

Intern                                                                           *July. 2020 - Present*

- Clova AI. Speech team
- Research on speaker representation

**Hyundai Motors**                                                              *Gyeonggi-do, Korea*

Researcher, Project Manager department                                           *Feb. 2017 - June. 2019*

- Development project of the mid-size sedan
- Overall Project Management - Collaborate with R&D departments

**Republic of Korea Army Military Service**                                      *Gyeonggi-do, Korea*

In 59 artillery battalion, 1st Infantry Division                                 *Jan. 2012 - Oct. 2013*

- Army Sgt. Expired

## Paper

**Intra-class variation reduction of speaker representation in disentanglement framework**                                                                        *INTERSPEECH, 2020*

Yoohwan Kwon, Soo-Whan Chung, Hong-Goo Kang

- Effective learning criteiron for speaker embedding
- Disentanglement method for effective speaker embedding

**Cross attentive pooling for speaker verification**                            *arXiv, 2020*

Seongmin Kye, Yoohwan Kwon, Joon Son Chung

- Pooling method for speaker verification
- Attentive pooling method using correation between support and query

## Skills

| | |
|---:|:---|
| **Programming** | Python, C/C++, MATLAB |
| **Deep Learning Tools** | Pytorch, Tensorflow |
| **Languages** | Korean - Native level |
| | English - Conversational level |

# **Res**earch & Activity

**Epidermal Skin-attachment-type Ultrasensitive Strain Sensor Array and Deep-Learning-based Strain-to-Word Conversion Algorithm for Silent Communication**

SAMSUNG ELECTRONICS

AUTOMATIC SPEECH RECOGNITION FOR STRAIN SIGNALS

April. 2019 - Present

**Deep learning-based Audio-Visual Speech Separation Algorithm using Multi-modal information**

NAVER Corp.

AUDIO ONLY SPEAKER RECOGNITION AND DIARIZATION

Jan. 2019 - Oct. 2019

**Assistant instructor of Deep learning Network intelligence**

SAMSUNG ELECTRONICS

BASIC ALGORITHM OF DEEP LEARNING

May. 2019 - May. 2019

**Development of low-end realtime detector for indoor radon diagnosis and monitoring**

KEITI

SOFTWARE MODULES FOR DIAGNOSIS AND NETWORK SYSTEM

July. 2016 - Dec. 2016