

# Soohyun Jeon

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## Education

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| <b>Korea University</b><br><i>B.S. Life Science, Brain and Cognitive Science</i> | 2017.03 – 2021.08<br><i>Seoul, South Korea</i> |
| <b>Korea University</b><br><i>M.S. Brain and Cognitive Engineering</i>           | 2021.09 – Present<br><i>Seoul, South Korea</i> |

## Research Experience

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| <b>iPEL Laboratory Internship</b><br><i>Korea University</i> <ul style="list-style-type: none"><li>Plant molecular signaling</li><li>Genomic DNA extraction, RNA extraction, cloning</li></ul>   | 2018.12 – 2019.01<br><i>Seoul, South Korea</i> |
| <b>Neuroscience Laboratory Internship</b><br><i>Korea University</i> <ul style="list-style-type: none"><li>Animal model with ADHD dopamine hypothesis</li><li>Working memory (novel object task), Impulsivity (Arduino) Experiment setting</li></ul>                                   | 2020.02 – 2021.03<br><i>Seoul, South Korea</i> |
| <b>BSPL Laboratory Internship</b><br><i>Korea University</i> <ul style="list-style-type: none"><li>Imaging genetics (Genetic data preprocessing, Artificial intelligence)</li><li>Neurorehabilitation (Healthy participants experiment, Artificial intelligence)</li></ul>             | 2021.01 – 2021.08<br><i>Seoul, South Korea</i> |
| <b>BSPL Laboratory Graduate Student</b><br><i>Korea University</i> <ul style="list-style-type: none"><li>Imaging genetics (ADHD, Artificial intelligence)</li><li>Cha hospital cooperation (ASD, GDD)</li><li>Neurorehabilitation (Stroke patients, Artificial intelligence)</li></ul> | 2021.09 – Present<br><i>Seoul, South Korea</i> |

## Thesis

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**Jeon, Soohyun, et al. "Comparing variants related to chronic diseases from genome-wide association study (GWAS) and the cancer genome atlas (TCGA)." (2023, Under Review).**

## Conference

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Spatial localization of lower limb movement on whole brain using 3D-pose estimation: an fMRI study., OHBM, 2021.01  
Cortical localization of lower-limb movement using 3D-pose with MRI-compatible lowerlimb movement device, BESK, 2021.08  
Analysis of 3D movement parameter with fMRI to identify the pattern of lower-limb movement, KHBM, 2021.11  
**Identification of the independent components of the attention-deficit hyperactivity disorder using fMRI and gene expression data, BESK, 2022.02**  
**Identification of the components of attention-deficit/hyperactivity disorder using stop signal task-based fMRI and gene expression data, KHBM, 2022.11**  
Transfer Learning to Predict General Psychopathology Factor (p-factor) using Scanner-Generalization Neural Networks in Adolescents based on Resting-State Functional Connectivity , KHBM, 2021.11

### *Other Experience*

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#### **Artificial intelligence researcher**

2020.12 – 2021.08

*Likenot team (Startup), Poola*

*Seoul, South Korea*

- Data collection and analyzing
- Deep learning models (CNN autoencoder)
- Launching Poola service

#### **Kaggle**

2021.11 – 2022.01

*Cellgmentation*

*Seoul, South Korea*

- Data collection and analyzing
- Image segmentation

### *Awards & Honors*

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#### **Studying scholarship**

*Korea University*

*2019, 2020*

#### **Special scholarship**

*Korea University*

*2019, 2020*

### *Specialized Skills*

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**Programming Languages:** Python (intermediate), R (beginner), Matlab (beginner)

**Language:** Korean (Advanced), English (intermediate)

### *Other Interests*

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**Hobbies:** reading books, writing essay, playing the contrabass

**Club:** Korea University Orchestra, book club, rock band