

Soohyun Jeon

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Education

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

Research Experience

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

Thesis

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).
Jeon, Soohyun, et al. "Abnormal association between neuronal activations and gene expressions of attention deficit hyperactivity disorder using parallel independent component analysis." (manuscript in preparation).
Kim, Hyun-Chul, et al. "Functional Representation of Lower Limb Movement using fMRI with 3D-pose Estimation in Video." (manuscript in preparation, 3rd author).

Conference

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
The genetic impact on neuronal activation and impulsive behavior in ADHD, BESK, 2023.02

Validation of Different Brain-Gene Relationship Between Healthy Control and ADHD Patients, BESK, 2023.06

The association between neuronal activation and gene expression in ADHD explains impulsive behavior, OHBM, 2023.07

Other Experience

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

Studying scholarship
Korea University 2019, 2020

Special scholarship
Korea University 2019, 2020

Specialized Skills

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

Language: Korean (advanced), English (intermediate), Japanese (beginner)

Other Interests

Hobbies: Reading and writing books, articles and publications, playing instruments (piano, contrabass, drum)

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