

Dong Hee Lee

Current address: Seoul, South Korea
LinkedIn: <https://www.linkedin.com/in/leedonghee/>

Last updated: Oct 2024
E-mail: leedonghee@protonmail.com
Website: <https://dongheelee.com>

- Education**
- Sungkyunkwan University** Suwon, South Korea
M.S., Biomedical Engineering Feb 2022
Advisor: Choong-Wan Woo
Thesis: “*The Landscape of Pain Prediction: A Systematic Review and Benchmarking Analysis*”
- Korea National Open University** South Korea
B.S., Computer Science Aug 2024
- Sungkyunkwan University** Seoul, South Korea
B.A., Consumer and Family Sciences Feb 2019
B.D.S., Data Science
- Research Experience**
- Center for Neuroscience Imaging Research, Institute for Basic Science** Suwon, South Korea
Research Assistant, Graduate Student Researcher Mar 2019 - Aug 2024
Advisor: Choong-Wan Woo
- Developed predictive models for pain based on neuroimaging fMRI data by applying machine learning techniques
 - Conducted more than 150 fMRI experiments (totaling >300 hours) using painful stimuli on healthy participants.
 - As a lab manager(one-year), administered a wide range of laboratory tasks, including recruiting participants and maintaining computer systems and experimental equipment
- Publications**
- Lee, D. H., Lee, S., Woo, C. -W. (2024). Decoding Pain: Uncovering the Factors that Affect the Performance of Neuroimaging-based Pain Models. *PAIN* (IF=7.9), <https://doi.org/10.1097/j.pain.0000000000003392>
- Gim, S., Lee, D. H., Lee, S., Woo, C. -W. (2024). Interindividual differences in pain can be explained by fMRI, sociodemographic, and psychological factors. *Nature Communications* (IF=14.7), 15, 7883. <https://doi.org/10.1038/s41467-024-51910-9>
- Kohoutová, L., Atlas, L. Y., Büchel, C., Buhle, J. T., Geuter, S., Jepma, M., Koban, L., Krishnan, A., Lee, D. H., Lee, S., Roy, M., Schafer, S. M., Schmidt, L., Wager, T. D., Woo, C. -W. (2022). Individual variability in brain representations of pain. *Nature Neuroscience* (IF=28.7), 1-11. <https://doi.org/10.1038/s41593-022-01081-x>
- Lee, J.-J., Lee, S., Lee, D. H., Woo, C. -W. (2022). Functional brain reconfiguration during sustained pain, *eLife* (IF=8.7), 11:e74463. <https://doi.org/10.7554/eLife.74463>
- Presentations (Posters)**
- The Landscape of Pain Prediction: A Systematic Review and Benchmarking Analysis. *Society for Neuroscience Annual Meeting*. San Diego, CA, USA. Nov 2022
- Skills**
- Languages:** Korean (Native), English (OPIc IH / IELTS Academic Band 7.0)
Programming Languages: MATLAB, Python, R, Bash
Libraries: SPM, FSL, Psychtoolbox, Tensorflow/Keras
Software: Git, Docker, GCP(Google Cloud Platform), Slack, Discord, Notion

Experiments: 3T MRI Siemens Prisma (Operation and Safety Training at Center for Neuroscience Imaging Research), Medoc Pathway (Pain & Sensory Evaluation System)

Reference

Associate Professor Choong-Wan Woo

Department of Biomedical Engineering, Sungkyunkwan University
Center for Neuroscience Imaging Research, Institute for Basic Science
E-mail: waniwoo@skku.edu