Minsung Cho

CONTACT INFORMATION   nninept@gmail.com
WEB PAGE   https://nninept.github.io/

EDUCATION

M.S., **Korea Aerospace University**   3. 2023 - 8. 2024
BS-MS integrated program, *Advisor: Jae Hoon Jung*

B.S. in Engineering, Korea Aerospace University   3. 2019 - 2. 2023

RESEARCH EXPERIENCE

Visiting Researcher,   11. 2024 - 5. 2025
University of North Carolina at Chapel Hill
UNC Neuroscience Center, *Advisor: Adam Hantman*

- Research on behavior decoding from neural spike trains, focusing on whether ANN models recover meaningful neural information versus performing only low-dimensional embeddings.

Undergrads Research Assistant,   3. 2021 - 6. 2021
Daegu Gyeongbuk Institute of Science and Technology (DGIST)
Future Vehicle Research Department.

- Develop OBU integrated driving environment awareness and real-time driving environment information management platform supporting the development of Level-4 autonomous driving mobility system

PUBLICATIONS

(In Submission) Minsung Cho, Jaesung Yoo, Stefan M. Lemke, Jian-Zhong Guo, Adam Hantman. *Temporal and Representational Dynamics in Neural Decoding: Linear and Nonlinear Models for Position and Velocity Prediction.*

Minsung Cho, Jae Hyeon Kim, & Jay Hoon Jung. *RaCUN : Research for Activation Function Based on Random Sampling to Increase the Robustness of Neural Network.* Korea Artificial Intelligence Conference (2023)

POSTER PRESENTATION

Minsung Cho, Jaesung Yoo, Stefan M. Lemke, Jian-Zhong Guo, Adam Hantman. *Decoding Movement from Neural Spike Trains : A Comparison of Linear and Nonelinear Models across Brain Regions and Temporal Delays* . Conference Cognitive Computational Neuroscience (CCN), 2025.

Minsung Cho, Jay Hoon Jung. *Toward Structural Similarities between the Brain and Neural Networks.* Conference Cognitive Computational Neuroscience (CCN), 2024.

Honors and Awards

AI/Robotics collaborative research program   Korea University,   KIAT   11.2024 - 5.2025
- Full funding for 6 month visiting research at UNC

EXTRACURRICULAR ACTIVITY

Machine Learning Study Club Leader   3. 2020 - 2. 2023

Korea Aerospace University,

- Review Machine Learning papers, Implement Deep Learning networks, Open Deep Learning course for freshman

2022 Open Source Contribution   2022
- Enhance the stability of Pytorch Lightning Framework source code

2021 Open Source Contribution   2021
- Translate PyTorch Framework official document to Korean