Inhyeok Taylor Baek

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Education

Seoul National University   March 2020–Present
Republic of Korea   Expected graduation: February 2030

Doctor of Medicine
B.S. in Mathematical Sciences

Cumulative GPA: 4.01/4.30

Research Experience

Innovative Radiology AI Laboratory   July 2024–Present
Seoul National University Hospital

· Developing a chest X-ray report generation model.

Functional Neuroanatomy of Metabolism Regulation Lab   July 2021–August 2022
Seoul National University College of Medicine

· Participated in the analysis of animal behavioral experiment data using DeepLabCut, a deep learning library for markerless pose estimation.
· Developed behavioral indices measuring goal-directed eating behaviors.

Publications

· Hypothalamic neuronal activation in non-human primates drives naturalistic goal-directed eating behavior. Ha, L.J.*, Yeo, H.-G.*, Kim, Y.G.*, **Baek, I.***, Baeg, E.*, Lee, Y.H., Won, J., Jung, Y., Park, J., Jeon, C.-Y., Kim, K., Min, J., Song, Y., Park, J.-H., Nam, K.R., Son, S., Yoo, S.B.M., Park, S., Choi, W.S., Lim, K.S., Choi, J.Y., Cho, J.-H., Lee, Y., and Choi, H.J. *Neuron*, 2024.
· Development of an assessment method for freely moving nonhuman primates' eating behavior using manual and deep learning analysis. Ha, L.J.*, Kim, M.*, Yeo, H.-G.*, **Baek, I.**, Kim, K., Lee, M., Lee, Y., and Choi, H.J. *Heliyon*, 2023.
· Lateral hypothalamic leptin receptor neurons drive hunger-gated food-seeking and consummatory behaviours in male mice. Lee, Y.H.*, Kim, Y.-B.*, Kim, K.S.*, Jang, M.*, Song, H.Y., Jung, S.-H., Ha, D.-S., Park, J.S., Lee, J., Kim, K.M., Cheon, D.-H., **Baek, I.**, Shin, M.-G., Lee, E.J., Kim, S.J., and Choi, H.J. *Nature Communications*, 2023.

*: Equal contribution

Awards and Scholarships

· *Silver award*, University Students Contest of Mathematics (2024)
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· *4th place*, SNU Bundang Hospital ICU Datathon (2023)
· Performance-based scholarship from SNU Project Group for Education and Research in Medical AI (2023)

Skills

Languages	Korean (native), English
Programming languages	Python (experienced with PyTorch)
Tools	LaTeX