

# Inhyeok Baek

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## Education

### Seoul National University

Republic of Korea

Doctor of Medicine

B.S. in Mathematical Sciences

Cumulative GPA: 4.01/4.30

March 2020–Present

Expected graduation: February 2030

## Research Experience

### Innovative Radiology AI Laboratory

Seoul National University Hospital

July 2024–Present

- Developing a chest X-ray report generation model.
- Developing a chest CT report error detection model.

### Functional Neuroanatomy of Metabolism Regulation Lab

Seoul National University College of Medicine

July 2021–August 2022

- 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.

## Research Grants

### Han Man-Chung Research Grant

*Development and Evaluation of Large Language Models for Chest CT Report Error Detection*

May 2025–April 2026

KRW 2,000,000

## 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)
- Silver award, University Students Contest of Mathematics (2023)
- 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), C++

Tools

L<sup>A</sup>T<sub>E</sub>X