

# Inhyeok Baek

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GitHub: [github.com/gavroche11](https://github.com/gavroche11)

## Education

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**Seoul National University, Republic of Korea**

March 2020–Present

Expected graduation: February 2030

Doctor of Medicine

B.S. in Mathematical Sciences

Cumulative GPA: 4.01/4.30

## Research Experience

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**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

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- Ha, L.J., Yeo, H.G., Kim, Y.G., et al. Hypothalamic neuronal activation in non-human primates drives naturalistic goal-directed eating behavior. *Neuron*, (2024).
- Ha, L.J., Kim, M., Yeo, H.G., et al. Development of an assessment method for freely moving nonhuman primates' eating behavior using manual and deep learning analysis. *Heliyon*, (2024).
- Lee, Y.H., Kim, Y.B., Kim, K.S., et al. Lateral hypothalamic leptin receptor neurons drive hunger-gated food-seeking and consummatory behaviours in male mice. *Nature Communications*, (2023).

## Awards and Scholarships

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- *Silver award*, Korean Mathematical Competition for Undergraduate Students (2024)
- *Silver award*, Korean Mathematical Competition for Undergraduate Students (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

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Languages

Korean (native), English

Computer Languages

Python (familiar with PyTorch)