

# Inhyeok Baek

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## Education

### Seoul National University

Republic of Korea

Doctor of Medicine

B.S. in Mathematical Sciences

Cumulative GPA: 3.72/4.3

March 2020–Present

Expected graduation: February 2030

## Research Experience

### Innovative Radiology AI Laboratory

July 2024–Present

Seoul National University Hospital

- Developing a multimodal chest X-ray report generation model, integrating both patient information and image features to enhance clinical relevance and accuracy of generated reports.
- Developing a chest CT report error detection model, using large language models to identify and categorize potential errors in radiology reports.

### 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.

## Professional Experience

### Rosota

November 2025–Present

Robotics AI Engineer

- Developing autonomous surgical and medical assistance robots utilizing state-of-the-art physical AI and robotics hardware.

## Research Grants

### Han Man-Chung Research Grant

May 2025–April 2026

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

KRW 2,000,000

## Publications (Selected)

Full list: Google Scholar | ORCID

- CREPE: Rapid Chest X-ray Report Evaluation by Predicting Multi-category Error Counts.** Gihun Cho, Seunghyun Jang, Hanbin Ko, **Inhyeok Baek**, and Chang Min Park. *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing*, 2025.
- Exploring the Capabilities of LLM Encoders for Image-Text Retrieval in Chest X-rays.** Hanbin Ko, Gihun Cho, **Inhyeok Baek**, Donguk Kim, Joonbeom Koo, Changi Kim, Dongheon Lee, and Chang Min Park. *arXiv*, 2025.

## Awards and Scholarships

- Silver award*, University Students Contest of Mathematics (2025, 2024, 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
Programming	Python
Frameworks	PyTorch, Hugging Face / Transformers
Tools & Platforms	L <sup>A</sup> T <sub>E</sub> X, Linux, Docker