

Inhyeok Baek

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Education

Seoul National University

Republic of Korea

Doctor of Medicine

B.S. in Mathematical Sciences

Cumulative GPA: 3.78/4.30

March 2020–Present

Expected graduation: February 2030

Research Experience

Innovative Radiology AI Laboratory

Seoul National University Hospital

July 2024–Present

- Developing a multimodal chest X-ray report generation model, integrating both clinical 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

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.

Professional Experience

Rosota

Robotics AI Engineer

November 2025–Present

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

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 (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)
- *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
Tools	LaTeX