Inhyeok 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: 3.78/4.30

Research Experience

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

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

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 (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
Tools	LaTeX