

DongGeon Lee

M.S. student at POSTECH

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RESEARCH INTERESTS

Natural language processing, Aligning Large Language Models (LLMs) to build trustworthy AI,
Domain adaptation of LLMs

EDUCATIONS

M.S. student in Artificial Intelligence

Pohang University of Science and Technology (POSTECH)

Feb 2024 - Present

Pohang, South Korea

- Advisor: Prof. Hwanjo Yu

B.S. in Information and Communication Engineering

Inha University

Mar 2018 - Feb 2024

Incheon, South Korea

RESEARCH EXPERIENCES

Graduate Research Assistant

Data Intelligence Lab, POSTECH

Feb 2024 - Present

Pohang, South Korea

- Advisor: Prof. Hwanjo Yu
- Research on knowledge conflicts of LLMs between external and internal knowledge.
- Research on continual domain-incremental learning in language models (LMs).

Research Intern

KT Corporation

Jan 2025 - Feb 2025

Seoul, South Korea

- Research on mathematical data synthesis for pre-training LLMs

Undergraduate Research Assistant

Data Intelligence Lab, Inha University

Nov 2022 - Nov 2023

Incheon, South Korea

- Advisor: Prof. Wonik Choi
- Research on post-training of language models for domain adaptation.
- Research on keyphrase extraction from aviation incident reports via fine-tuning LMs.

Undergraduate Research Assistant

Nursing Informatics Lab, Inha University

Jul 2021 - Jun 2023

Incheon, South Korea

- Advisor: Prof. Insook Cho
- Research on detecting fall events in clinical notes by fine-tuning LMs.

TECHNICAL SKILLS

- **Programming Languages:** Python, Shell Script, (C++, C, JavaScript)
- **Frameworks and Libraries:** PyTorch, transformers, (Keras, TensorFlow)
- **Systems and Tools:** Git, Linux, L^AT_EX, (MySQL)

PUBLICATIONS (INTERNATIONAL)

- [1] Insook Cho, Hyunchul Park, Byeong Sun Park, **DongGeon Lee**. Enhancing Adverse Event Reporting With Clinical Language Models: Inpatient Falls. *Journal of Advanced Nursing*, 2025.
- [2] Insook Cho, EunJu Lee, **DongGeon Lee**. Effects of Language Differences on Inpatient Fall Detection Using Deep Learning. In the *Proceedings of the 19th World Congress on Medical and Health Informatics (MedInfo 2023)*, 2024.
- [3] **DongGeon Lee**, EunJu Lee, Insook Cho. Bridging the Reporting Gap of Inpatient Falls to Improve Safety Practices Using Deep-Learning-Based Language Models and Multisite Data. *AMIA 2023 Clinical Informatics Conference*, 2023.

PUBLICATIONS (DOMESTIC)

- [1] **DongGeon Lee***, Ahjeong Park*, Hyeri Lee, Hyeonseo Nam, and Yunho Maeng. Question Types Matter: An Analysis of Question-Answering Performance in Retrieval-Augmented Generation Across Diverse Question Types. In the *Proceedings of the 36th Annual Conference on Human & Cognitive Language Technology (HCLT 2024)*, 2024.
- [2] TaeYoon Kwack*, Jisoo Kim*, Ki Yong Jung, **DongGeon Lee**, and Heesun Park. Tabular-TX: Theme-Explanation Structure-based Table Summarization via In-Context Learning. In the *Proceedings of the 36th Annual Conference on Human & Cognitive Language Technology (HCLT 2024)*, 2024. (Excellent Paper Award)
- [3] Changhun Koo*, Yoonjoo Jung*, and **DongGeon Lee***. Through deep learning-based video processing, Design and implementation of Smart Port Parking Information System. In the *Proceedings of the Annual Conference of Korea Information Processing Society 2021 (ACK 2021)*, 2021.

HONORS

Gold Prize (Director's Award of the NIKL) <i>NIKL (National Institute of Korean Language)</i> <ul style="list-style-type: none">• Won the Korean AI Language Proficiency Challenge held by the NIKL.	Oct 2024
Excellent Paper Award (Director's Award of the NIKL) <i>The 36th Annual Conference on Human & Cognitive Language Technology (HCLT 2024)</i>	Oct 2024
Scholarship for Outstanding Graduate Students <i>POSTECH</i>	May 2024
Top Engineering Student Award <i>Inha University</i>	Feb 2024
Research Scholarship for Undergraduate Researchers <i>Inha University</i>	Aug 2023