

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 Feb 2024 - Present
Pohang University of Science and Technology (POSTECH) Pohang, South Korea

- Advisor: Prof. Hwanjo Yu

B.S. in Information and Communication Engineering Mar 2018 - Feb 2024
Inha University Incheon, South Korea

RESEARCH EXPERIENCES

Graduate Research Assistant Feb 2024 - Present
Data Intelligence Lab, POSTECH 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 Jan 2025 - Feb 2025
KT Corporation Seoul, South Korea

- Research on mathematical data synthesis for pre-training LLMs

Undergraduate Research Assistant Nov 2022 - Nov 2023
Data Intelligence Lab, Inha University 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 Jul 2021 - Jun 2023
Nursing Informatics Lab, Inha University 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] **DongGeon Lee***, Ahjeong Park*, Hyeri Lee, Hyeonseo Nam, Yunho Maeng. Typed-RAG: Type-aware Multi-Aspect Decomposition for Non-Factoid Question Answering *NAACL Student Research Workshop 2025*, 2025. (Accepted)
- [2] Insook Cho, Hyunchul Park, Byeong Sun Park, **DongGeon Lee**. Enhancing Adverse Event Reporting With Clinical Language Models: Inpatient Falls. *Journal of Advanced Nursing*, 2025.
- [3] 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.
- [4] **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, 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**, 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*, **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.

PUBLICATIONS (PREPRINT)

- [1] **DongGeon Lee**, Hwanjo Yu. REFIND: Retrieval-Augmented Factuality Hallucination Detection in Large Language Models. *arXiv preprint arXiv:2502.13622*, 2025.

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