

# DongGeon Lee

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## RESEARCH INTERESTS

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

## EDUCATIONS

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**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

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**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).

**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 fall event detection from electronic medical records via fine-tuning LMs.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Shell Script, (C++, C, JavaScript)
- **Frameworks and Libraries:** PyTorch, transformers, (Keras, TensorFlow)
- **Systems and Tools:** Git, Linux, L<sup>A</sup>T<sub>E</sub>X, (MySQL)

## CONFERENCES (INTERNATIONAL)

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- [1] Insook Cho, EunJu Lee, and **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.
- [2] **DongGeon Lee**, EunJu Lee, and 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.

## CONFERENCES (DOMESTIC)

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- [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.

## UNDER REVIEW

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- [1] Enhancing Adverse Event Reporting with AI: Using Large Language Models to Detect Inpatient Falls
- [2] Decomposing Non-Factoid Question with Retrieval-Augmented Generation

## HONORS

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