

DongGeon Lee

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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

- [1] Typed-RAG: Type-aware Multi-Aspect Decomposition for Non-Factoid Question Answering
DongGeon Lee*, Ahjeong Park*, Hyeri Lee, Hyeonsoo Nam, Yunho Maeng
NAACL'25 SRW | Annual Conference of the Nations of the Americas Chapter of the
Association for Computational Linguistics (Student Research Workshop)
- [2] REFINd: Retrieval-Augmented Factuality Hallucination Detection in Large Language Models
DongGeon Lee, Hwanjo Yu
Preprint'25 | arXiv preprint arXiv:2502.13622
- [3] Enhancing Adverse Event Reporting With Clinical Language Models: Inpatient Falls
Insook Cho, Hyunchul Park, Byeong Sun Park, DongGeon Lee
Journal of Advanced Nursing (SCIE; Q1), 2025.02
- [4] Theme-Explanation Structure for Table Summarization using Large Language Models: A
Case Study on Korean Tabular Data
TaeYoon Kwack*, Jisoo Kim*, Ki Yong Jung, DongGeon Lee, Heesun Park
Preprint'25 | arXiv preprint arXiv:2501.10487
- [5] Question Types Matter: An Analysis of Question-Answering Performance in Retrieval
-Augmented Generation Across Diverse Question Types
DongGeon Lee*, Ahjeong Park*, Hyeri Lee, Hyeonsoo Nam, Yunho Maeng
HCLT'24 (Domestic) | Annual Conference on Human & Cognitive Language Technology
- [6] Effects of Language Differences on Inpatient Fall Detection Using Deep Learning
Insook Cho, EunJu Lee, DongGeon Lee
MedInfo'23 | World Congress on Medical and Health Informatics
- [7] Bridging the Reporting Gap of Inpatient Falls to Improve Safety Practices Using Deep
-Learning-Based Language Models and Multisite Data
DongGeon Lee, EunJu Lee, Insook Cho
CIC'23 | AMIA 2023 Clinical Informatics Conference

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