DongGeon Lee

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RESEARCH INTEREST	Data-centric natural language processing. Aligning Large Language Models (LLMs) to build trustworthy AI.

EDUCATION

M.S. student in Artificial Intelligence — Feb 2024 - Present
Pohang University of Science and Technology (POSTECH) — *Pohang, South Korea*

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 (Advisor: Prof. Hwanjo Yu) — *Pohang, South Korea*

- Research on the alignment of vision language models (VLMs) with human intent in a multi-turn environment to build safe and trustworthy AI.
- Research on data-centric approaches to improving the mathematical reasoning skills of low-resource LLMs.
- 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 (Advisor: Prof. Wonik Choi) — *Incheon, South Korea*

- Research on post-training of LMs 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 (Advisor: Prof. Insook Cho) — *Incheon, South Korea*

- Research on detecting fall events in clinical notes via fine-tuning LMs.

PUBLICATIONS

International Publications

[9] Typed-RAG: Type-aware Multi-Aspect Decomposition for Non-Factoid Question Answering
DongGeon Lee*, Ahjeong Park*, Hyeri Lee, Hyeonseo Nam, Yunho Maeng
NAACL'25 SRW | Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Student Research Workshop

[8] REFIND: Retrieval-Augmented Factuality Hallucination Detection in Large Language Models
DongGeon Lee, Hwanjo Yu
arXiv Preprint, 2025.02

[7] 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

[6] 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
arXiv Preprint, 2025.01

[5] 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

[4] 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

AMIA CIC'23 | AMIA Clinical Informatics Conference

Domestic Publications (written in *Korean*)

[3] Question Types Matter: An Analysis of Question-Answering Performance in Retrieval-Augmented Generation Across Diverse Question Types
DongGeon Lee*, Ahjeong Park*, Hyeri Lee, Hyeonseo Nam, Yunho Maeng

HCLT'24 | Annual Conference on Human & Cognitive Language Technology

[2] Tabular-TX: Theme-Explanation Structure-based Table Summarization via In-Context Learning (Excellent Paper Award)
TaeYoon Kwack*, Jisoo Kim*, Ki Yong Jung, DongGeon Lee, Heesun Park

HCLT'24 | Annual Conference on Human & Cognitive Language Technology

[1] Through deep learning-based video processing, Design and implementation of Smart Port Parking Information System
Changhun Koo*, Yoonjoo Jung*, DongGeon Lee*

ACK'21 | Annual Conference of Korea Information Processing Society

HONORS AND AWARDS		
Gold Prize (Director's Award of the NIKL)		2024
Korean AI Language Proficiency Challenge, NIKL (National Institute of Korean Language)		
Excellent Paper Award		2024
HCLT'24; The 36th Annual Conference on Human & Cognitive Language Technology		
Scholarship for Outstanding Graduate Students		2024
POSTECH		
Top Engineering Student Award		2024
Inha University		
Research Scholarship for Undergraduate Researchers		2023
Inha University		

ACADEMIC SERVICES		
Secondary Reviewer of ACL ARR (Association for Computational Linguistics Rolling Review)		2025
Reviewer of SemEval (International Workshop on Semantic Evaluation)		2025

TECHNICAL SKILLS

Professional working proficiency
Python, PyTorch, transformers, Git

Limited working proficiency
Keras, Linux, Shell Script, LaTeX

Elementary proficiency
TensorFlow, C++, C, MySQL