

Geonyeong Son

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RESEARCH INTERESTS

Structuring knowledge and experience curation, developing human-like language understanding, providing interactive learning and teaching

EDUCATION

- **Hanyang University - M.S. in Data Science** Mar 2024 - Feb 2026
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea
- **Sejong University - M.S. in Data Science (transferred)** Mar 2023 - Feb 2024
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea
- **Sejong University - B.S. in Data Science** Mar 2017 - Feb 2023
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea
◦ Military service leave: Dec 2017 - Aug 2019

RESEARCH EXPERIENCE

- **Graduate Research Assistant - Hanyang University** Mar 2024 - Jun 2025
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea
- **Graduate Research Assistant - Sejong University** Mar 2023 - Feb 2024
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea
- **Undergraduate Research Assistant - Sejong University** Jul 2021 - Feb 2023
◦ Advisor: [Prof. Misuk Kim](#) Seoul, South Korea

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

Conference

- [C.2] [G.Son](#), [J.Lee](#), [M.Kim](#). (2025). **From Curiosity to Clarity: Exploring the Impact of Consecutive Why-Questions**. In Findings of the Association for Computational Linguistics: NAACL 2025.
- [C.1] [J.Lee](#), [G.Son](#), [M.Kim](#). (2024). **ESG-Kor: A Korean Dataset for ESG-related Information Extraction and Practical Use Cases**. In Findings of the Association for Computational Linguistics: EMNLP 2024.

Journal

- [J.2] [G.Son](#) & [M.Kim](#). (2025). **Multi-level prompting: Enhancing model performance through hierarchical instruction integration**. *Knowledge-Based Systems*, Vol. 320, (in press), pp. 113545. DOI: 10.1016/j.knosys.2025.113545. (Q1, Impact Factor: 7.2).
- [J.1] [G.Son](#) & [M.Kim](#). (2024). **A simple and efficient dialogue generation model incorporating commonsense knowledge**. *Expert Systems with Applications*, Vol. 249, Part B, pp. 123584. DOI: 10.1016/j.eswa.2024.123584. (Q1, Impact Factor: 8.5).

Submitted

- [S.1] [S.Yoo](#), [J.Lee](#), [C.Yoon](#), [G.Son](#), [H.Hong](#), [S.Seo](#), [S.Yim](#), [C.Jung](#), [J.Park](#), [M.Kim](#), and [Y.Jang](#). (2025). **Data Transformation Strategies to Remove Heterogeneity**. Manuscript submitted for publication in *ACM Computing Surveys* (Q1, Impact Factor: 28.0) (under review).
- [S.2] [G.Son](#) & [M.Kim](#). (2024). **RTKD: Responsive Teacher Knowledge Distillation with Heterogeneous Students**. Manuscript submitted for publication in *Knowledge-Based Systems* (Q1, Impact Factor: 7.2) (under review).

PROJECTS

- **Generative, Predictive, and Prescriptive Maintenance Architecture for Autonomous Production System** Dec 2024 - Jun 2025
National Research Foundation of Korea (NRF)
◦ Participated in a research paper seminar with a presentation.
- **Implementation of cloud-based no-code environment front-end tool for SW global market entry in Manufacturing/Finance/Service sectors** Apr 2024 - Jun 2025
Institute of Information & Communications Technology Planning & Evaluation (IITP)
◦ Developed a classifier (graph, table, or both) based on user query intent using prompt-generated data and filtering.
◦ Published the paper "Multi-level prompting: Enhancing model performance through hierarchical instruction integration".

- **Development of Questions and Answers based on Insurance Product Documents** Apr 2024 - Oct 2024
Hanwha General Insurance Co., Ltd.
 - Developed a RAG framework that automatically selects optimal chunking, embedding, and retrieval strategies based on QA.
- **K-ESG-based performance management and production process optimization service technology development for small and medium-sized manufacturing industries** Mar 2024 – Dec 2024
Korea Evaluation Institute of Industrial Technology (KEIT)
 - Published the paper "ESG-Kor: A Korean Dataset for ESG-related Information Extraction and Practical Use Cases".
- **Development of commonsense-aware and emotion-sensitive human-like dialogue system** Jun 2023 - Jun 2025
National Research Foundation of Korea (NRF)
 - Improved answer accuracy and diversity using commonsense sentence embeddings.
 - Published the paper "A Simple and Efficient Dialogue Generation Model Incorporating Commonsense Knowledge".
- **Development of heterogeneous fusion data detection and tracking technologies** Nov 2021 - Dec 2023
Institute of Information & communications Technology Planning & Evaluation (IITP)
 - Proposed a framework that integrates news images and text to detect fake news.
 - Submitted the paper "Data Transformation Strategies to Remove Heterogeneity" (*under review*).

AWARDS AND HONORS

- **Excellence Award, Undergraduate Student Paper Competition, KCC 2022** Jun 2022
Korean Institute of Information Scientists and Engineers (KIISE)
 - Paper: Dialogue Generator with Commonsense based on KoBART

ACADEMIC SERVICES

- **Sub Reviewers for:** AAI(2023), ACL(2024, 2025), EMNLP(2024, 2025), NAACL(2025)

TEACHING EXPERIENCE

- **Teaching Assistant - Hanyang University** (Dept. of Data Science)
 - Machine Learning (Instructor: [Prof. Misuk Kim](#)) Mar 2024 - Jun 2025

SKILLS

- **Languages:** Korean, English
- **Programming Languages:** Python, C, R, Pytorch, Tensorflow

REFERENCES

Misuk Kim

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Hanyang University
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Relationship: [M.S. Advisor]