

Geonyeong Son

 handgunzero2@gmail.com |  geonyeongson.github.io |  [geonyeongson](#) |  [Google Scholar](#)

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 | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim | <i>Mar 2024 - Feb 2026</i>
Seoul, South Korea |
| • Sejong University - M.S. in Data Science (transferred) | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim | <i>Mar 2023 - Feb 2024</i>
Seoul, South Korea |
| • Sejong University - B.S. in Data Science | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim◦ Military service leave: Dec 2017 - Aug 2019 | <i>Mar 2017 - Feb 2023</i>
Seoul, South Korea |

RESEARCH EXPERIENCE

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|---|--|--|
| • Graduate Research Assistant - Hanyang University | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim | <i>Mar 2024 - Jun 2025</i>
Seoul, South Korea |
| • Graduate Research Assistant - Sejong University | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim | <i>Mar 2023 - Feb 2024</i>
Seoul, South Korea |
| • Undergraduate Research Assistant - Sejong University | <ul style="list-style-type: none">◦ Advisor: Prof. Misuk Kim | <i>Jul 2021 - Feb 2023</i>
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

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| • Generative, Predictive, and Prescriptive Maintenance Architecture for Autonomous Production System | <ul style="list-style-type: none">◦ National Research Foundation of Korea (NRF)◦ Participated in a research paper seminar with a presentation. | <i>Dec 2024 - Jun 2025</i> |
| • Implementation of cloud-based no-code environment front-end tool for SW global market entry in Manufacturing/Finance/Service sectors | <ul style="list-style-type: none">◦ 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". | <i>Apr 2024 – Jun 2025</i> |

- **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:** AAAI(2023), ACL(2024, 2025), EMNLP(2024, 2025), NAACL(2025)

TEACHING EXPERIENCE

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

SKILLS

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

REFERENCES

Misuk Kim

Assistant Professor, Data Science
Hanyang University
Email: misukim@hanyang.ac.kr
Relationship: [M.S. Advisor]