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
  ◦ *Thesis: RTKD: Responsive Teacher Knowledge Distillation with Heterogeneous Students*

• 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)*.

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:** AAAI(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

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