

Geonyeong Son

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RESEARCH INTERESTS

My research focuses on human-like NLP, aiming to develop models that think, understand, and learn like humans. My research interests include Computational Linguistics, Commonsense Reasoning, Human-like Language Understanding, and Learning from Language.

EDUCATION

- **Hanyang University** Mar 2024 - Feb 2026(expected)
M.S. in Data Science Seoul, South Korea
 - Advisor: [Prof. Misuk Kim](#)
- **Sejong University** Mar 2023 - Feb 2024
Transferred to Hanyang University with my advisor. Seoul, South Korea
 - Advisor: [Prof. Misuk Kim](#)
- **Sejong University** Mar 2017 - Feb 2023
B.S. in Data Science Seoul, South Korea
 - Leave of absence for military service: (Army: Dec 2017 - Aug 2019)
 - Advisor: [Prof. Misuk Kim](#)

RESEARCH EXPERIENCE

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

PUBLICATIONS

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

- [S.2] Geonyeong Son, Misuk Kim. (2025). **RTKD: Responsive Teacher Knowledge Distillation with Heterogeneous Students**. Manuscript submitted for publication in *EMNLP 2025 (under review)*.
- [S.1] Sangbong Yoo, Jaeyoung Lee, Chanyoung Yoon, Geonyeong Son, Hyein Hong, Seongbum Seo, Soobin Yim, Chanyoung Jung, Jungsoo Park, Misuk Kim, and Yun Jang. (2025). **Data Transformation Strategies to Remove Heterogeneity**. Manuscript submitted for publication in *ACM Computing Surveys (under review)*.
- [J.2] Geonyeong Son, Misuk 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).
- [C.2] Geonyeong Son, Jaeyoung Lee, Misuk 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] Jaeyoung Lee, Geonyeong Son, Misuk 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.
- [J.1] Geonyeong Son, Misuk 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).

PROJECTS

- **Generative, Predictive, and Prescriptive Maintenance Architecture for Autonomous Production System** Dec 2024 - Jun 2025
National Research Foundation of Korea (NRF)
 - Attended and presented at a research paper seminar to analyze and gain comprehensive insight into the project.
- **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 framework to classify visualization methods (graph, table, or both) based on user query intent.
 - Utilized prompt-based generative AI to generate data and perform human filtering and model 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 the optimal chunking, embedding, and retrieval strategies based on QA.
- **Development of commonsense-aware and emotion-sensitive human-like dialogue system** Jun 2023 - Jun 2025
National Research Foundation of Korea (NRF)
 - Enhanced answer accuracy and diversity by injecting commonsense sentence embeddings into the question.
 - 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.
 - Authored the Application section of the paper "Data Transformation Strategies to Remove Heterogeneity (In Submission)".

AWARDS AND HONORS

- **Excellence Award, Undergraduate Student Paper Competition, KCC 2022 (Korean Computer Congress)** Jun 2022
Korean Institute of Information Scientists and Engineers (KIISE)
 - Paper Title: 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**
Dept. of Data Science, Hanyang University
 - Machine Learning (Instructor: [Prof. Misuk Kim](#)) Mar 2024 - Jun 2024

VOLUNTEER EXPERIENCE

- **One-on-One Academic and Socio-Emotional Support Program (Mentoring)** May 2021 - Jun 2021
Gwangjin Education Welfare Center
 - Provided one-on-one academic tutoring and socio-emotional mentoring to elementary school students from educationally disadvantaged backgrounds
- **Wordvision Regular Sponsorship** Nov 2010 - Nov 2021
Wordvision
 - Provided regular sponsorship for Worldvision to improve the education, health, and welfare of children worldwide.

CERTIFICATIONS

- **ADsP(Advanced Data Analytics Semi-Professional)** Apr 2021
Korea Data Agency
 - Certified in data analytics and statistics
 - Skilled in visualization and basic machine-learning-driven insights
- **SQLD(SQL Developer)** Apr 2021
Korea Data Agency
 - Certified in relational modeling and SQL
 - Familiar with relational database concepts and practical SQL

SKILLS

- **Languages:** Korean(Native speaker), English(In progress)
- **Programming Languages:** Python, C, R, Pytorch, Tensorflow

REFERENCES

Misuk Kim

Assistant Professor, Data Science

Hanyang University

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Relationship: [M.S. Advisor]