Geonyeong Son

✉ handgunzero2@gmail.com | 🌐 geonyeongson.github.io | 🔗 geonyeongson | 🎓 Google Scholar

RESEARCH INTERESTS

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, Republic of Korea
  ◦ GPA: 3.88/4.50
  ◦ Advisor: Prof. Misuk Kim

• Sejong University *Mar 2023 - Feb 2024*
Transferred to Hanyang University with my advisor. Seoul, Republic of Korea
  ◦ Advisor: Prof. Misuk Kim

• Sejong University *Mar 2017 - Feb 2023*
B.S. in Data Science Seoul, Republic of Korea
  ◦ Military Service (Army: Dec 2017 - Aug 2019)
  ◦ GPA: 3.65/4.50 (Major: 3.86/4.50)
  ◦ 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*.

[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*.

[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).

[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).

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
Email: misukim@hanyang.ac.kr
Relationship: [M.S. Advisor]