Ahjeong **Park**

AI RESEARCHER · NLP ENGINEER

Gyeonggi-do, Rep. of KOREA

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"Motto: Done is better than perfect"

Research Interests

Natural Language Processing(NLP), Customizable Conversational AI, Improvement & Evaluation of Retrieval-augmented Language Models, Information Extraction for AI Performance Enhancement

Education

Sookmyung Women's University — *Seoul, S.Korea*

B.S. in IT Engineering — *Mar. 2016 - 2. 2021*

Sookmyung Women's University — *Seoul, S.Korea*

M.S. in IT Engineering — *Mar. 2021 - 2. 2023*

- Got the outstanding Alumni Scholarship, which is given to promising students from our undergraduate school.

Honors & Awards

PATENTS

2023	**Lead**, Method and system for ensemble of recurrent neural network model	*International*
2023	**Lead**, Method and apparatus for automatically generating natural language comments based on transformer	*International*
2022	**Lead**, Method and system for ensemble of recurrent neural network model	*Domestic*
2022	**Lead**, Method and apparatus for automatically generating natural language comments based on transformer	*Domestic*

AWARDS

2019	**Grand Prize**, 2019 Public SW Contributhon	*Seoul, S.Korea*
2018	**1st Place**, The 4th Global Innovator Festival (Makerthon)	*Seoul, S.Korea*
2018	**3rd Place**, AWS Women in Tech Hacking Competition Final	*Seoul, S.Korea*

Publications

Question Types Matter: An Analysis of Question-Answering Performance in Retrieval-Augmented Generation Across Diverse Question Types — *HCLT-KACL*

DongGeon Lee*, Ahjeong Park*, Hyeri Lee, Hyeonseo Nam, Yunho Maeng — *2024*

REGEN: Recurrent Ensemble Methods for Generative Models — *Master's Thesis*

Ahjeong Park*, Chulyun Kim — *2023*

ALSI-Transformer: Transformer-Based Code Comment Generation with Aligned Lexical and Syntactic Information — *IEEE Access*

Youngmi Park*, Ahjeong Park, Chulyun Kim — *2023*

A Study on the AST Traversal Method to Improve the Quality of Code Comment Generation — *KCC*

Youngmi Park*, Ahjeong Park, Chulyun Kim — *2022*

Improving Seq2Seq model performance through new RNN ensemble method *KSC*

Ahjeong Park*, Chulyun Kim *2021*

Research

Question Types Matter: An Analysis of Question-Answering Performance in Retrieval-Augmented Generation Across Diverse Question Types *Gyeonggi-do, S.Korea*

RAG & LLM& Question-Answering *Feb. 2024 - Sep. 2024*

- Performance Analysis of LLM and RAG-Based Systems on Factual and Non-Factual Questions.
- Highlighted the need for question-answering systems that adapt to various question types.

A new ensemble algorithm for natural language generation and translation models(REGEN) *Seoul, S.Korea*

NLP & Generation & Ensemble *Jul. 2021 - Dec. 2022*

- Proposed a new ensemble algorithm, REGEN, suitable for generation tasks.
- Applied to Seq2Seq and Transformer models, showing superior performance over traditional ensembles and single models.

Automatically Generating Natural Language Comments for Deep Learning-Based Source Code *Seoul, S.Korea*

NLP & Auto Code Comment Generation *Jan. 2022 - Jun. 2023*

- Proposed the ALSI-Transformer model and CAT (Code-Aligned Type) dataset for automatic source code annotation.
- Achieved state-of-the-art performance by improving accuracy and model size, addressing limitations in existing datasets.

Extracurricular Activity

LLM Experimental Lab, MODULABS *Gyeonggi-do, S.Korea*

Core Member *02. 2024 - Present*

- Focused on LLM application research and set research directions for RAG.
- Analyzed RAG limitations and explored Query Rewriting methodologies.
- Conducted experiments and prepared for international conference paper submission.

KIRD Learning Lab *Gyeonggi-do, S.Korea*

Core Member *02. 2024 - Present*

- Conducted a study on ”Enhancing Korean-Specialized RAG Technology.”
- Drafted learning plans and participated in study sessions.

7th PseudoLab - Summarizing the Latest Research Trends in an Engaging and Accessible Manner *Seoul, S.Korea*

Core Member & Learner *Sep. 2023 - Nov. 2023*

- Presented and shared the latest NLP research trends (LLM Fine-Tuning, Parameter Efficient Fine-Tuning).
- Provided feedback on research trends in other fields.

NLP Paper Study Group *Seoul, S.Korea*

Core Member *Aug. 2022 - Nov. 2022*

- Reviewed key NLP papers and implemented related code.
- Shared presentation materials and uploaded study videos to YouTube.

Skills

Programming	Python, Javascript, Java
Frameworks & Libraries	Pytorch, Tensorflow, Keras, transformers
System & Tools	Git, MySQL, LaTex