Yongchan **Chun**

AI Researcher · AI Engineer

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Summary

M.S. candidate in Computer Science and Engineering at Korea University (Advisor: Heuiseok Lim), with research and engineering experience across multiple AI domains. Passionate about advancing AI and unafraid to explore new ideas, I have worked with diverse modalities and problems, including:

- Representation Learning
- Knowledge Editing
- Information Extraction
- Retrieval-Augmented Generation (RAG)
- Uncertainty Estimation
- Automatic Speech Recognition (ASR)

International Publications

† (Corresponding author)

Enhancing Automatic Term Extraction with Large Language Models via Syntactic Retrieval
Yongchan Chun, Minhyuk Kim, Dongjun Kim, † Chanjun Park, † HeuiSeok Lim
ACL 2025 - Findings of the Annual Meeting of the Association for Computational Linguistics

Benchmark Profiling: Mechanistic Diagnosis of LLM Benchmarks
Dongjun Kim, Gyuho Shim, **Yongchan Chun**, Minhyuk Kim, † Chanjun Park, † HeuiSeok Lim
EMNLP 2025 - Proceedings of the Conference on Empirical Methods in Natural Language Processing

KoLEG: On-the-Fly Korean Legal Knowledge Editing with Continuous Retrieval
Jaehyung Seo, Dahyun Jung, **Yongchan Chun**, Jaewook Lee, Dongjun Kim, Hwijung Ryu, Donghoon Shin, † HeuiSeok Lim
EMNLP 2025 - Findings of the Conference on Empirical Methods in Natural Language Processing

Domestic Publications

KONVERSE: An End-to-End Model for Translating English Speech to Korean Text
Yongchan Chun, Minhyuk Kim, Dongjun Kim, † Chanjun Park, † HeuiSeok Lim
HCLT 2024 - Annual Conference on Human and Language Technology (Oral)

UKoSpeech: A Universal Korean ASR System for Diverse Domains
Yongchan Chun, Minhyuk Kim, Dongjun Kim, † Chanjun Park, † HeuiSeok Lim
HCLT 2025 - Annual Conference on Human and Language Technology (Oral)

Honors & Awards

2023	**Exellence Award**, Capstone Project	*University of Seoul*
2024	**Silver Prize**, AI x Bookathon Hackathon	*Sungkyunkwan University*
2024	**Exellence Award**, Software Maestro	*Seoul, S.Korea*

Experience

(National Initiative) National Representative AI — World Best LLM

NC AI, Korea University, ETRI, KAIST, SNU, LOTTE Innovate, POSCO DX

Research Engineer — *Aug. 2025 – Dec. 2025*

- Participated in Korea's National Representative AI initiative (supported by NIPA, IITP, and NIA).
- The project involves working on servers equipped with approximately 1,000 NVIDIA H100 GPUs.
- Led data preprocessing and developed the LLM evaluation framework.

(Independent Research) Dataset Filtering for Domain Adaptation of ASR Models

Korea University

Research Engineer — *Sep 2025 – Feb 2026*

- Conducting research on improving preprocessing techniques for domain-specific ASR datasets.
- Propose a novel metric for dataset filtering that excludes term-level dependencies when computing WER or CER.
- Manuscript to be submitted to **Interspeech 2026** as first author.

(Independent Research) Uncertainty Estimation of Large Pretrained Models

Korea University

Research Engineer — *May 2025 – Nov 2025*

- Investigating the reliability and uncertainty estimation of large pretrained models.
- Treated large pretrained models (including LLMs) as classifiers and used evidential deep learning for second-order uncertainty estimation.
- Propose a Variational Autoencoder (VAE) to provide a pretrained model with improved uncertainty estimates in Bayesian manner.
- To be submitted to **CVPR 2026** as first author.

(Industry–Academic Joint Project) Unlearning for LLM Reliability

KT & Korea University

Research Engineer — *Apr. 2024 – May 2025*

- Developed RAG-based editing with lifelong learning for the legal domain.
- Trained a BGE-M3–based retriever using a novel hard-negative mining strategy.
- Published at **EMNLP Findings 2025**

(Collaborative Research) Ramp lesion detection using an end-to-end deep learning framework

ChungAng University Hospital & Korea University

Research Engineer — *May 2024 – Nov. 2025*

- Developed an end-to-end model to detect whether a patient has a ramp lesion using image and tabular data.
- Proposed a three-stage representation-learning pipeline to fuse image and tabular features effectively.
- Improved prior SOTA by approximately 20%.
- To be submitted to ***The American Journal of Sports Medicine*** as first author.

(Collaborative Research) MAGIC: Multi-Lingual Automated YouTube Subtitle Generation and Interpretation Companion

Human-Inspired AI Research Center & Korea University

Research Engineer — *May 2024 – Nov. 2024*

- Developed an automatic speech recognition (ASR) inference pipeline.
- Achieved an approximately 2.5×transcription speedup by combining WhisperX batch inference with the Groq API.
- Deployed at magic.kullm.ai.

(National-Funded Project) AI-based personal note-taking assistant

Software Maestro

Research Engineer — *Mar. 2023 – Dec. 2023*

- Built an AI-based personal note-taking service.
- Developed a data-curation pipeline to collect training data for ASR domain adaptation.
- Deployed the ASR model on-premises using Kubernetes and Ray.
- Implemented RAG-based summarization and question answering.

(Industry–Academic Joint Project) Fake hospital receipt detection

Samsung SDS & University of Seoul

Research Engineer — *Aug. 2022 – Mar. 2023*

- Built a binary classifier to detect fake hospital receipts.
- Used a GAN-based representation model to encode receipt images and trained a classifier on top.
- Constructed a hard negative mining dataset for fine-grained, robust classification.

Skills

Programming	Python
Machine Learning & Deep Learning	Uncertainty Estimation, Representation Learning
Natural Language Processing	Information Extraction, RAG, Knowledge Editing
Speech	Automatic Speech Recognition
Model Serving	Kubernetes, Ray
Language Skills	Korean, English

Education

Korea University

Seoul, S.Korea

M.S. in Computer Science and Engineering

Mar. 2024 - Feb. 2026

- Advisor: Heuiseok Lim
- Natural Language Processing & Artificial Intelligence Lab

University of Seoul

Seoul, S.Korea

B.S. in Geoinformatics

Mar. 2017 - Aug. 2023

- Advisor: Youngmin Roh
- Interned at Machine Intelligence Lab (Aug.2022 - Aug.2023)
- TA of Data Mining (Spring 2023)

Extracurricular Activity

TAVE (Data Science & AI Club)

Seoul, S.Korea

Manager

Mar. 2021 – Dec. 2022

- Organized technical events and member sessions to strengthen networking among core members.
- Competed in multiple data-analysis challenges and hackathons.

Software Maestro (National software entrepreneurship training program)

Seoul, S.Korea

Member

Mar. 2023 – Dec. 2023

- Built an AI-based note-taking assistant as part of a 3-person team.
- Ranked in the **top 6% (finalist)**, which was awarded a CES visit and a two-week course at CMU.
- Transferred the technology to a software solutions company.