# Chanwoong Yoon

Email | LinkedIn | Google Scholar | Homepage

## RESEARCH INTERESTS

**Natural Language Processing, AI Safety, Model Interpretability**

## EDUCATION

**Korea University**　　　　　　　　　　　　　　　　　　　Mar. 2024 - Present
*Master of Science*
- Major: Computer Science and Engineering
- GPA: 4.25/4.5
- Advisor: Jaewoo Kang

**Hanyang University**　　　　　　　　　　　　　　　　　Mar. 2017 - Feb. 2023
*Bachelor of Science*
- Major: Software, College of Computing
- GPA: 4.03/4.5 (Merit-based Scholarship)

## EXPERIENCE

**Georgia Institute of Technology**　　　　　　　　　　　Oct. 2025 - Present
*Visiting Researcher*
- Advisor: Alan Ritter

**Data Mining and Information Systems Lab, Korea University**　　Aug. 2023 - Sep. 2025
*Research Assistant*
- Advisor: Jaewoo Kang

**Electronics and Telecommunications Research Institute (ETRI)**　Jul. 2022 - Aug. 2022
*Research Intern*
- Advisor: Junseong Bang

## SELECTED PUBLICATIONS

**1. CompAct: Compressing Retrieved Documents Actively for Question Answering**
**Chanwoong Yoon**, Taewhoo Lee, Hyeon Hwang, Minbyul Jeong, Jaewoo Kang
EMNLP 2024, Main

**2. Ask Optimal Questions: Aligning Large Language Models with Retriever's Preference in Conversational Search**
**Chanwoong Yoon**\*, Gangwoo Kim\*, Byeongguk Jeon, Sungdong Kim, Yohan Jo, Jaewoo Kang
NAACL 2025, Findings

**3. ETHIC: Evaluating Large Language Models on Long-Context Tasks with High Information Coverage**
Taewhoo Lee, **Chanwoong Yoon**, Kyochul Jang, Donghyeon Lee, Minju Song, Hyunjae Kim, Jaewoo Kang
NAACL 2025, Main

**4. Does Time Have Its Place? Temporal Heads: Where Language Models Recall Time-specific Information**
Yein Park, **Chanwoong Yoon**, Jungwoo Park, Minbyul Jeong, Jaewoo Kang
ACL 2025, Main

## FULL PUBLICATIONS

**1. ChroKnowledge: Unveiling Chronological Knowledge of Language Models in Multiple Domains**
Yein Park, **Chanwoong Yoon**, Jungwoo Park, Donghyeon Lee, Minbyul Jeong, Jaewoo Kang
ICLR 2025

**2. Outlier-Safe Pre-Training for Robust 4-Bit Quantization of Large Language Models**
Jungwoo Park, Taewhoo Lee, **Chanwoong Yoon**, Hyeon Hwang, Jaewoo Kang
ACL 2025, Main

**3. Rationale-Guided Retrieval Augmented Generation for Medical Question Answering**
Jiwoong Sohn, Yein Park, **Chanwoong Yoon**, Sihyeon Park, Hyeon Hwang, Mujeen Sung, Hyunjae Kim, Jaewoo Kang
NAACL 2025, Main

**4. LAPIS: Language Model-Augmented Police Investigation System**
Heedou Kim, Dain Kim, Jiwoo Lee, **Chanwoong Yoon**, Donghee Choi, Mogan Gim, Jaewoo Kang
CIKM 2024

**5. Small Language Models Learn Enhanced Reasoning Skills from Medical Textbooks**
Hyunjae Kim, Hyeon Hwang, Jiwoo Lee, Sihyeon Park, Dain Kim, Taewhoo Lee, **Chanwoong Yoon**, Jiwoong Sohn, Donghee Choi, Jaewoo Kang
NPJ Digital Medicine

## RESEARCH ACTIVITY

**Data Mining and Information Systems Lab, Korea University**          Aug. 2023 - Sep. 2025
*Research Assistant* (Advisor: Jaewoo Kang)
**Context Compression for Retrieved-Augmented Language Model**
- Employed an Active strategy to condense extensive documents without losing key information in retrieved corpus.
- Demonstrated significant improvements in both performance and compression rate on question-answering benchmarks
- showcased flexibility as a cost-efficient plug-in module with various off-the-shelf retrievers or readers, achieving exceptionally high compression rates (47x).

**RetPO: Retriever's Preference Optimization**
- Developed a RETPO, a novel framework to optimize a language model for reformulating search queries in line with the preferences of target retrieval systems.
- Achieved state-of-the-art performance, significantly outperforming existing baselines, including GPT-3.5.

**Electronics and Telecommunications Research Institute (ETRI)**          Jul. 2022 - Aug. 2022
*Research Intern* (Advisor: Junseong Bang)
**Efficient Training for Dialogue State Tracking Systems**

## AWARDS AND HONORS

**Research Fund Recipient**, Korea Institute for Advancement of Technology (KIAT)          May 2025
- Selected to receive over **USD 21,000** in research support for a research visit
**Outstanding Research Paper Award**, Korea University          Feb. 2025
- CompAct: Compressing Retrieved Documents Actively for Question Answering (EMNLP 2024)
**Encouragement Award**, KIISE Korea Computer Congress Competition          Jul. 2022
**Merit-based Scholarships (50% Tuition)**, Hanyang University          Fall 2020 — Spring 2022

## TECHNICAL SKILLS

**Programming:** Python, C, C++
**Libraries:** PyTorch, NumPy, Matplotlib, Transformers, TransformerLens
**Machine Learning & Deep Learning (LLMs):** Post-training Strategies (Fine-tuning, DPO)
**Natural Language Processing (NLP):** Information Retrieval, Retrieval-Augmented Generation

## RESEARCH & ANALYTICAL SKILLS

**Theoretical Foundations:** Linear Algebra, Probabilistic Modeling, Information Theory
**Scientific Writing & Publication:** Experience publishing at top-tier conferences (ICLR, ACL, EMNLP, NAACL, CIKM)
**Collaboration & Mentorship:** Experience in academic collaborations as a first author and co-author (mentoring junior researchers)

## ACADEMIC SERVICE

**ICLR 2026**
- Reviewer **ARR Review (Dec. 2025), ACL 2025**
- Secondary Reviewer

## LANGUAGE

Korean (Native)
English (TOEFL: 104)