# Jeonghun Cho

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## EDUCATION

**Pohang University of Science and Technology**  Pohang, South Korea
M.S. in Artificial Intelligence  Sep 2023 - Aug 2025

**Hanyang University ERICA**  Ansan, South Korea
B.S. in Electrical Engineering (summa cum laude)  Mar 2018 - Aug 2023
*Completed mandatory military service

## EXPERIENCE

**Natural Language Processing Group**  Pohang, South Korea
Graduate Researcher (Advisor: Prof. Gary Geunbae Lee)  Sep 2023 - Aug 2025

**Efficient Learning Lab**  Pohang, South Korea
Undergraduate Researcher (Advisor: Prof. Jaeho Lee)  Jan 2023 - Feb 2023
Pruning models under challenging scenarios

**Laboratory of Intelligent Things**  Ansan, South Korea
Undergraduate Researcher (Advisor: Prof. Joohyun Lee)  Sep 2022 - Dec 2022
Natural language data processing for medical applications

## RESEARCH INTERESTS

Natural Language Processing (NLP), Retrieval-Augmented Generation, Reasoning, Code Generation, Machine Learning, Deep Learning

## PUBLICATIONS

**Self-Correcting Code Generation Using Small Language Models**
Jeonghun Cho, Deokhyung Kang, Hyounghun Kim, and Gary Geunbae Lee.
Preprint. [paper][code]

**Retrieval-Augmented Fine-Tuning With Preference Optimization For Visual Program Generation**
Deokhyung Kang*, Jeonghun Cho*, Yejin Jeon, Sunbin Jang, Minsub Lee, Jawoon Cho, and Gary Geunbae Lee.
Proceedings of ACL 2025. [paper]

**K-COMP: Retrieval-Augmented Medical Domain Question Answering With Knowledge-Injected Compressor**
Jeonghun Cho and Gary Geunbae Lee.
Proceedings of NAACL 2025. [paper][code]

**Medical Domain Retrieval-Augmented Question Answering through Entity-based Context Extraction**
Jeonghun Cho and Gary Geunbae Lee.
Proceedings of KCC 2024. [paper][code]
*Best paper (Top 1.7%)

## PATENS

**Method and Apparatus for Entity-Based Retrieval-Augmented Question Answering**
Jeonghun Cho and Gary Geunbae Lee
Patent No: 10-2024-0133650, Publication Date: 2024-10-02

## PROJECTS

**LLM-based PLC Programming Assistant**                                      Jul 2024 - Feb 2025
Funded by Hyundai Mobis

## AWARDS

**Best Paper Award**                                                                      Jun 2024
Korea Computer Congress 2024

**Academic Scholarship**                                                   Fall 2022, Spring 2023
Hanyang University

## TEACHING EXPERIENCE

**CSED232 Principles of Software Construction**                                    Spring 2025
Teaching Assistant (Instructor: Prof. Kyungmin Bae)

**Youth AI & Big Data Academy**                                                       Fall 2024
Lecture