

# Juhwan Choi

M.S. Student at Chung-Ang University | Last Update: Sep 20, 2024  
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## Research Interest

Deep Learning, Natural Language Processing, Large Language Models, Data-Centric AI

## Education

### Chung-Ang University

M.S. in Artificial Intelligence

GPA: 4.26 / 4.5 [Transcript]

Advisor: YoungBin Kim

Seoul, Korea

Mar. 2023 - Feb. 2025 (Expected)

### Chung-Ang University

B.S. in Electrical and Electronics Engineering

GPA: 3.94 / 4.5 [Certificate] [Transcript]

Seoul, Korea

Mar. 2017 - Feb. 2023

## Research Experience

### Research Assistant

Advisor: YoungBin Kim

Intelligent Information Processing Lab @ Chung-Ang Univ.

Mar. 2023 - Present

### Undergraduate Research Intern

Advisor: YoungBin Kim

Intelligent Information Processing Lab @ Chung-Ang Univ.

Apr. 2021 - Feb. 2023

### Undergraduate Intern

Advisor: Hohyun Park

Big Data & AI Lab @ Chung-Ang Univ.

Jan. 2021 - Feb. 2021

## International Publications

Textual Data Augmentation based on Semantic Triples

Under review at AAAI 2025.

Mitigation of Dominant Modality Bias

Under review at EMNLP 2024.

Analysis on Ethical Behavior of LLMs under Multilingual Setup

Under review at EMNLP 2024.

Interactive Document Summarization System

Under review at EMNLP 2024 Demo Track.

Korean Football In-game Conversation State Tracking Dataset for Dialogue and Turn Level Evaluation

Under review at Engineering Application of Artificial Intelligence.

Questioning Internal Knowledge Structure of Large Language Models  
Through the Lens of the Olympic Games [Paper]

Juhwan Choi and YoungBin Kim

arXiv Preprint arXiv:2409.06518

Under review at COLING 2025.

VoIDoGer: LLM-assisted Datasets for Domain Generalization in Vision-Language Tasks [Paper]

Juhwan Choi, Junehyoung Kwon, Jungmin Yun, Seunguk Yu and YoungBin Kim

arXiv Preprint arXiv:2407.19795

Under review at AAAI 2025.

**UniGen: Universal Domain Generalization for Sentiment Classification via Zero-shot Dataset Generation** [[Paper](#)]

[Juhwan Choi](#), Yeonghwa Kim, Seunguk Yu, Jungmin Yun and YoungBin Kim  
EMNLP 2024 (To Appear)

**Multi-News+: Cost-efficient Dataset Cleansing via LLM-based Data Annotation** [[Paper](#)]

[Juhwan Choi](#), Jungmin Yun, Kyohoon Jin and YoungBin Kim  
EMNLP 2024 (To Appear)

**Don't be a Fool: Pooling Strategies in Offensive Language Detection from User-Intended Adversarial Attacks** [[Paper](#)]

Seunguk Yu, [Juhwan Choi](#) and YoungBin Kim  
NAACL 2024 Findings

**Enhancing Effectiveness and Robustness in a Low-Resource Regime via Decision-Boundary-aware Data Augmentation** [[Paper](#)]

Kyohoon Jin\*, Junho Lee\*, [Juhwan Choi](#)\*, Sangmin Song\* and YoungBin Kim  
LREC-COLING 2024  
Equal contribution as a co-first author.

**Colorful Cutout: Enhancing Image Data Augmentation with Curriculum Learning** [[Paper](#)] [[Code](#)] [[Poster](#)] [[Presentation](#)]

[Juhwan Choi](#) and YoungBin Kim  
ICLR 2024 Tiny Papers  
Accepted as notable work with oral presentation.

**Adverb Is the Key: Simple Text Data Augmentation with Adverb Deletion** [[Paper](#)] [[Code](#)] [[Poster](#)]

[Juhwan Choi](#) and YoungBin Kim  
ICLR 2024 Tiny Papers

**AutoAugment Is What You Need: Enhancing Rule-based Augmentation Methods in Low-resource Regimes** [[Paper](#)] [[Code](#)] [[Poster](#)] [[Presentation](#)]

[Juhwan Choi](#), Kyohoon Jin, Junho Lee, Sangmin Song and YoungBin Kim  
EACL 2024 Student Research Workshop

**GPTs Are Multilingual Annotators for Sequence Generation Tasks** [[Paper](#)] [[Code](#)] [[Poster](#)] [[Poster](#)]

[Juhwan Choi](#), Eunju Lee, Kyohoon Jin and YoungBin Kim  
EACL 2024 Findings

**SoftEDA: Rethinking Rule-Based Data Augmentation with Soft Labels** [[Paper](#)] [[Review](#)] [[Code](#)] [[Presentation](#)]

[Juhwan Choi](#), Kyohoon Jin, Junho Lee, Sangmin Song and YoungBin Kim  
ICLR 2023 Tiny Papers  
Accepted as notable work with oral presentation.

**Generative Data Augmentation via Wasserstein Autoencoder for Text Classification** [[Paper](#)] [[Code](#)]

Kyohoon Jin, Junho Lee, [Juhwan Choi](#), Soojin Jang and YoungBin Kim  
The 13th International Conference on ICT Convergence

## Domestic Publications

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**기계번역에서 효율적인 도메인 적응을 위한 적응형 데이터스토어 리사이징** [[Paper](#)]

Jinhee Jang, [Juhwan Choi](#), Jungmin Yun and YoungBin Kim  
2024 Summer Annual Conference of IEIE

**감정 간의 관계를 고려한 지도 대조 학습 기반 감정 인식** [[Paper](#)]

Dongje Yoo, Kyunghoon Jeon, [Juhwan Choi](#) and YoungBin Kim  
2023 Summer Annual Conference of IEIE

**KITE: 한국어 고의 오타자를 활용한 텍스트 데이터 증강 방법론** [[Paper](#)]

Seunguk Yu, [Juhwan Choi](#), Heejae Suh, Kyohoon Jin and YoungBin Kim  
Proceedings of HCI Korea 2023

낮선 데이터를 활용한 과잉신뢰 완화 텍스트 증강 기법 [\[Paper\]](#) [\[Presentation\]](#)  
Junho Lee, Sangmin Song, [Juhwan Choi](#), Juhyoung Park, Kyohoon Jin and YoungBin Kim  
Proceedings of HCI Korea 2023

Variational Autoencoder기반 의미 보존 자연어 데이터 증강 기법 [\[Paper\]](#) [\[Presentation\]](#)  
[Juhwan Choi](#), Junho Lee, Kyohoon Jin, Yehoon Jang, Soojin Jang and YoungBin Kim  
2022 Summer Annual Conference of IEIE

## Patents

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이미지에 대한 주석 데이터 구축을 위한 장치 및 방법 KR 10-2024-0107178  
발명자: 김영빈, 최주환. 특허 출원 및 심사단계

## Research Projects

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Development of Medical Counselor Chatbot Jun. 2024 - Present  
Development of RAG-based Chatbot Assistant for Real Estate Law Apr. 2024 - Present

## Honors & Awards

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Travel Grant @ ICLR 2024 May. 2024

## Skills

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<b>Programming Languages</b>	Familiar: Python
	Experienced: Matlab   C   C++
<b>Libraries &amp; Tools</b>	PyTorch   HuggingFace Transformers   Git   CLI
<b>Language Proficiency</b>	Native: Korean
	Fluent: English <a href="#">[TOEIC 980]</a> <a href="#">[TEPS 409]</a>

## Services

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<b>Reviewer</b>	ACL Rolling Review (From 2023 August)
	EACL 2024
	NAACL 2024
	ACL 2024
	EMNLP 2024
	ICLR 2025
	ACL SRW 2024
	ICLR Tiny Papers 2024