

Juhwan Choi

Researcher at AITRICS | Last Update: May. 16, 2025

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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: 4.29 / 4.5 [Certificate] [Transcript]

Advisor: YoungBin Kim

Thesis: Universal Domain Generalization Based on Synthetic Data from Large Language Models

Seoul, Korea

Mar. 2023 - Feb. 2025

Chung-Ang University

B.S. in Electrical and Electronics Engineering

GPA: 3.94 / 4.5 [Certificate] [Transcript]

Seoul, Korea

Mar. 2017 - Feb. 2023

Research and Work Experience

Researcher

AITRICS, Seoul, Korea

Feb. 2025 - Present

Research Assistant

Advisor: YoungBin Kim

Intelligent Information Processing Lab @ Chung-Ang Univ.

Mar. 2023 - Feb. 2025

Undergraduate 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

* denotes equal contribution.

Automating Electronic Medical Record Database Preprocessing based on LLM Agents

Under review at NeurIPS 2025.

Probing Multi-user DST Capability of Large Language Models

Under review at EMNLP 2025.

Textual Data Augmentation based on Semantic Triples

Under review at EMNLP 2025.

Plug-in and Fine-tuning: Bridging the Gap between Small Language Models and Large Language Models

Kyeonghyun Kim*, Jinhee Jang*, Juhwan Choi*, Yoonji Lee, Kyohoon Jin and YoungBin Kim

ACL 2025

Delving into Multilingual Ethical Bias: The MSQAD
with Statistical Hypothesis Tests for Large Language Models

Seunguk Yu, Juhwan Choi, and YoungBin Kim

ACL 2025

See-Saw Modality Balance: See Gradient, and Sew Impaired Vision-Language Balance
to Mitigate Dominant Modality Bias [Paper]

Junehyoung Kwon*, MiHyeon Kim*, Eunju Lee, [Juhwan Choi](#) and YoungBin Kim
NAACL 2025 (Oral Presentation)

SummPilot: Bridging Efficiency and Customization for Interactive Summarization System [[Paper](#)]

Jungmin Yun, [Juhwan Choi](#), Kyohoon Jin, Soojin Jang, Jinhee Jang and YoungBin Kim
AAAI 2025 Demonstration Track

Korean Football In-game Conversation State Tracking Dataset for Dialogue and Turn Level Evaluation [[Paper](#)]

Sangmin Song, Juhyoung Park, [Juhwan Choi](#), Junho Lee, Kyohoon Jin and YoungBin Kim
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

VolDoGer: 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

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

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

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

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

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

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](#)] [[Presentation](#)]

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

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

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

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

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 오탈자를 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

이미지에 대한 주석 데이터 구축을 위한 장치 및 방법
발명자: 김영빈, 최주환. 특허 출원 및 심사단계

KR 10-2024-0107178

Research Projects

Development of Medical Counselor Chatbot

Jun. 2024 - Dec. 2024

Development of RAG-based Chatbot Assistant for Real Estate Law

Apr. 2024 - Dec. 2024

Honors & Awards

Travel Grant @ ICLR 2024

May. 2024

Skills

Programming Languages

Familiar: Python

Experienced: Matlab | C | C++

Libraries & Tools Language Proficiency

PyTorch | HuggingFace Transformers | Git | CLI

Native: Korean

Fluent: English [[TOEIC 980](#)] [[TEPS 409](#)]

Reviewer	ACL Rolling Review (From 2023 August)
	EACL 2024
	NAACL 2024, 2025
	ACL 2024, 2025
	EMNLP 2024
	NeurIPS 2025
	ICLR 2025
	ACL SRW 2024, 2025
	ICLR Tiny Papers 2024