

Juhwan Choi

Researcher at AITRICS | Last Update: Mar. 11, 2025
✉ gold5230@cau.ac.kr | 🌐 c-juhwan | 🔗 LinkedIn | 🏠 Google Scholar

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

Probing Multi-user DST Capability of Large Language Models

Under review at ACL 2025.

Textual Data Augmentation based on Semantic Triples

Under review at ACL 2025.

Bridging the Gap between Small Language Models and Large Language Models

Under review at ACL 2025.

Analysis on Ethical Behavior of LLMs under Multilingual Setup

Under review at ACL 2025.

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

Junehyoung Kwon, MiHyeon Kim, Eunju Lee, Juhwan Choi and YoungBin Kim

NAACL 2025 (Oral Presentation)

SummPilot: Bridging Efficiency and Customization for Interactive Summarization System

Jungmin Yun, Juhwan Choi, Kyohoon Jin, Soojin Jang, Jinhee Jang and YoungBin Kim

AAAI 2025 Demo 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
Under review at ACL 2025.

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
Under review at ACL 2025.

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

[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

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

PyTorch | HuggingFace Transformers | Git | CLI

Language Proficiency

Native: Korean

Fluent: English [TOEIC 980] [TEPS 409]

Services

Reviewer

ACL Rolling Review (From 2023 August)

EACL 2024

NAACL 2024, 2025

ACL 2024, 2025

EMNLP 2024

ICLR 2025

ACL SRW 2024, 2025

ICLR Tiny Papers 2024