

Juhwan Choi

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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

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.

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

arXiv Preprint arXiv:2405.01022

Under review at EMNLP 2024.

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

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

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

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 Autoencoder 기반 의미 보존 자연어 데이터 증강 기법 [[Paper](#)] [[Presentation](#)]

[Juhwan Choi](#), Junho Lee, Kyohoon Jin, Yehoon Jang, Soojin Jang and YoungBin Kim

Research Projects

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

Honors & Awards

Travel Grant @ ICLR 2024	May. 2024
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Skills

Programming Languages	Familiar: Python Experienced: Matlab C C++
Libraries & Tools	PyTorch HuggingFace Transformers Git CLI
Language Proficiency	Native: Korean Fluent: English [TOEIC 955] [TEPS 409]

Services

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