

Juhwan Choi

✉ gold5230@cau.ac.kr | 🌐 c-juhwan | 🏠 c-juhwan.github.io

Research Interest

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

Education

Chung-Ang University

M.S. in Artificial Intelligence

GPA: 4.33 / 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

Domain Generalization for Dataset Synthesization

Under review.

Interactive Document Summarization System

Under review.

Constructing Sport Game Conversation Dataset

Under review.

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

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

arXiv Preprint arxiv:2404.09682

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 co-first author.

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

[Juhwan Choi](#) and YoungBin Kim

ICLR 2024 Tiny Papers

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

[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](#)]

[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](#)]

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

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

[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

텍스트 분류를 위한 Wasserstein Autoencoder를 활용한 생성적 데이터 증강

Kyohoon Jin, Junho Lee, [Juhwan Choi](#), Sangmin Song, Soojin Jang and YoungBin Kim
KICS Winter Conference 2024

소프트 라벨을 적용한 규칙 기반 텍스트 데이터 증강 기법 [[Paper](#)] [[Poster](#)]

[Juhwan Choi](#), Junho Lee, Sangmin Song, Kyohoon Jin and YoungBin Kim
2023 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

낯선 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

Semantic Preservation and Natural Language Data Augmentation via Variational Autoencoder [[Paper](#)]

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

Variational Autoencoder 기반 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

Research Projects

Multimodal Dataset Generation

Nov. 2023 - Present

Domain Generalization through Dataset Generation

Nov. 2023 - Present

Submitted a paper - under review

Multilingual Data Annotation using LLMs

Apr. 2023 - Jan. 2024

Submitted a paper and accepted to EACL 2024 Findings.

Text Data Augmentation with Soft Label

Feb. 2023 - May. 2023

Submitted a paper and accepted to ICLR 2023 Tiny Papers.

Interactive News Summarization

Jan. 2023 - Present

Submitted a paper at demo track.

Decision Boundary-Based Data Augmentation

Aug. 2022 - Feb. 2024

Submitted a paper and accepted to LREC-COLING 2024.

Deep Learning Seminar

Feb. 2022 - Mar. 2022

Based on Stanford CS224n and CS231n

Text Data Augmentation using Wasserstein Autoencoder

Aug. 2021 - Jan. 2022

Related work research, Implemented text classification model.

Implementing Image Captioning Model using Transformers

Apr. 2021 - Jun. 2021

Korean Hate Speech Detection Model

Apr. 2021 - May. 2021

Used pre-trained [KcELECTRA](#). Ranked 11/88 (in Dec. 2022) at [[Kaggle competition](#)]

Deep Learning Seminar

Jan. 2021 - Feb. 2021

Based on CMU 11-785

Honors & Awards

Travel Grant @ ICLR 2024

Skills

Programming Languages

Familiar: Python | C | C++

Experienced: Matlab

Libraries & Tools

Pytorch | HuggingFace | Numpy | Pandas | 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

ICLR 2024 Tiny Papers

Relevant Coursework

Graduate Level

Artificial Intelligence Deep Unsupervised Learning | Deep Generative Model | Graph Neural Networks | Advanced Natural Language Processing | Artificial Intelligence Literacy | Ethics and Fairness in Artificial Intelligence

Undergraduate Level

Computer Science Algorithms | Artificial Intelligence | Basic Computer Programming | Computer Architecture | Data Structure | Digital Image Processing | Internet of Intelligent Things | Logic Circuit | Microcomputer Systems | Mobile Network | Numerical Analysis | Object-Oriented Programming | Operating Systems

Mathematics Calculus 1 | Calculus 2 | Electric Mathematics | Engineering Mathematics | Linear Algebra | Random Variables

