

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: 4.33 / 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

Improving the Quality of the Existing Dataset via LLM

Under review.

Domain Generalization for Dataset Synthesization

Under review.

Interactive Document Summarization System

Under review.

Korean Offensive Language Detection with Pooling Strategy

Under review.

Constructing Sport Game Conversation Dataset

Under review.

Enhancing Effectiveness and Robustness in a Low-Resource Regime
via Decision-Boundary-aware Data Augmentation

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

LREC-COLING 2024

Colorful Cutout: Enhancing Image Data Augmentation with Curriculum Learning

[Juhwan Choi](#) and Youngbin Kim

ICLR 2024 Tiny Papers

Adverb Is the Key: Simple Text Data Augmentation with Adverb Deletion

[Juhwan Choi](#) and Youngbin Kim

ICLR 2024 Tiny Papers

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

Juhwan Choi, Kyohoon Jin, Junho Lee, Sangmin Song and Youngbin Kim
EACL 2024 Student Research Workshop

GPTs Are Multilingual Annotators for Sequence Generation Tasks [\[Paper\]](#)

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

Submitted a paper - under review

Nov. 2023 - Present

Multilingual Data Annotation using LLMs

Submitted a paper and accepted to EACL 2024 Findings.

Apr. 2023 - Jan. 2024

Text Data Augmentation with Soft Label

Submitted a paper and accepted to ICLR 2023 Tiny Papers.

Feb. 2023 - May. 2023

Interactive News Summarization

Submitted a paper at demo track.

Jan. 2023 - Present

Decision Boundary-Based Data Augmentation

Submitted a paper and accepted to LREC-COLING 2024.

Aug. 2022 - Feb. 2024

Deep Learning Seminar

Based on Stanford CS224n and CS231n

Feb. 2022 - Mar. 2022

Text Data Augmentation using Wasserstein Autoencoder

Related work research, Implemented text classification model.

Aug. 2021 - Jan. 2022

Implementing Image Captioning Model using Transformers

Apr. 2021 - Jun. 2021

Korean Hate Speech Detection Model

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

Apr. 2021 - May. 2021

Deep Learning Seminar

Based on CMU 11-785

Jan. 2021 - Feb. 2021

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