

Juhwan Choi

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Research Interest

Deep Learning, Natural Language Processing, Data Augmentation

Education

Chung-Ang University

M.S. in Artificial Intelligence

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

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

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

Data Annotation using LLMs

Submitted a paper - under review

Apr. 2023 - Present

Text Data Augmentation with Soft Label

Submitted a paper and accepted to ICLR 2023 Tiny Papers.

Feb. 2023 - Present

Interactive Text Summarization

Jan. 2023 - Present

Decision Boundary-Based Data Augmentation

Submitted a paper - under review

Aug. 2022 - Jun. 2023

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 pretrained **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]

Relevant Coursework

Graduate Level

Artificial Intelligence 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