

Jaepill Choi

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👤 Research Interest

Natural Language Processing, Large Language Models, Deep Learning, Machine Learning

🎓 Education

Seoul National University, Seoul, South Korea

September 2022 - Present

M.S., Graduate School of Data Science

Learning and Adaptation Algorithms Lab (Advisor: Prof. Taesup Kim)

Yonsei University, Seoul, South Korea

March 2016 - August 2022

B.S., Department of Mechanical Engineering

- 2-years absence to fulfill military service (January 2017 - October 2018)

📖 Publications

• Kyubyung Chae*, **Jaepill Choi***, Yohan Jo, Taesup Kim. “Mitigating Hallucination in Abstractive Summarization with Domain-Conditional Mutual Information”, Findings of the Association for Computational Linguistics: NAACL 2024. (Accepted)

• **Jaepill Choi**, Kyubyung Chae, Jiwoo Song, Taesup Kim. “Fine-tuning Language Models to Alleviate Hallucinations in Abstractive Summarization”, KCC 2024. (Accepted)

• **Jaepill Choi**, Kyubyung Chae, Jiwoo Song, Yohan Jo, Taesup Kim. “Model-based Preference Optimization in Abstractive Summarization without Human Feedback”, EMNLP 2024. (Under Review)

*Equal Contribution

✍ Research Experience

Learning and Adaptation Algorithms Lab

December 2022 - Present

Advisor: Prof. Taesup Kim

Master Student

- **Mitigating hallucination in Large Language Models (LLMs)**
 - Implemented alternative decoding strategies for LLMs to enhance factuality in summarization.
 - Utilized Direct Preference Optimization (DPO) to train LLMs, reducing hallucinations in models.
- **Cross-model transfer through multi-task learning**
 - Employed prompt-tuning techniques to facilitate cross-model transfer
 - Trained a soft prompt projector using multi-task learning to enhance model compatibility

Multi-dimensional Insight Lab

December 2021 - March 2022

Advisor: Prof. Sanghoon Lee

Undergraduate Research Intern

- **3D Avatar Modeling**
 - Utilized Marvelous Designer for avatar modeling
 - Conducted research papers study on computer vision and 3D avatar

🏢 Work Experience

Samsung Biologics EPCV Center, Incheon, South Korea

July 2021 - August 2021

Undergraduate Intern

- Utilized AutoCAD for drawing organization and revision tasks in the Plant 4 construction project
- Conducted analysis and management of the HVAC system for Plant 4

Hyundai Motors Headquarter, Seoul, South Korea

November 2019 - December 2019

Human Resources Assistant

- Provided assistance with recruiting tasks

Volunteer Experience

Elderly Education Volunteer

March 2023 - June 2023

Technical educator

- Provided technology education to elderly individuals at Gwanak social welfare center

2018 Pyeongchang Olympic Volunteer

January 2018 - March 2018

Olympic VIP translator

- Translated for foreign VIP and visitors from all around the world
- Escorted IOC president, Thomas Bach

Yonsei-Incheon Teaching Volunteer

March 2016 - June 2016

High school student mentor

- Assisted students with their high school curriculum at Dong-Incheon high school

Awards and Honors

Highest Honor, Yonsei University

Fall 2022

Honor, Yonsei University

Fall 2020, Fall 2021, Spring 2022

3rd Prize, Creative Design Camp, Hongik University

December 2021

Certificate of Achievement, 2-2 AHB, 2ID, US Army

October 2018

Teaching Experience

Teaching Assistant, Seoul National University

December 2018

TA for Machine Learning and Deep Learning

- Developed a self-supervised learning assignment using CIFAR-10
- Provided support and answered questions related to the course

Samsung Future Maker Camp

December 2018

Mentor for middle school students

- Taught students autonomous driving coding for model cars using SCRATCH

Leadership Experience

Military Service for Republic of Korea

January 2017 - October 2018

Senior KATUSA, 2ID

- Served as ROKA Staff Office member at 2-2 AHB, 2ID
- Completed military service as Sergeant

Yonsei Exchange Club

March 2016 - June 2016

16th student president

- Responsible for organizing, creating and leading club activities

Skills

Languages

Korean, English

Programming tools

Python, C, C++, Matlab

Modeling

Creo, AutoCAD

General

Microsoft Office, LaTeX