

Haneul Yoo

PH.D. CANDIDATE

Daejeon, Republic of Korea

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About

Haneul Yoo is a Ph.D. candidate advised by Professor Alice Oh in the School of Computing at KAIST. Her research interests primarily lie in machine learning (ML) and natural language processing (NLP), including but not limited to 1) data-centric, multilingual NLP and 2) NLP applications in education. She has worked on bridging the communication gaps among non-native speakers by 1) advancing large language models (LLMs) through constructing language resources, especially in low-resource languages, and 2) assisting their language learning through LLM-driven education innovation.

Education

KAIST

PH.D. IN SCHOOL OF COMPUTING

- Advisor: Alice Oh

Daejeon, Korea

Sep 2022 - Present

KAIST

M.S. IN SCHOOL OF COMPUTING

- Advisor: Alice Oh

Daejeon, Korea

Sep 2020 - Aug 2022

Ajou University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

B.S. IN DIGITAL MEDIA

- University of Wisconsin - Stout, WI, USA — Semester Abroad Winter 2018

Suwon, Korea

Mar 2017 - Aug 2020

Experience

Boostcamp AI Tech

LECTURER

- Course: Data-Centric AI

Remote

Jun 2024 - Present

NAVER AI Lab

RESEARCH INTERN

- Development and evaluation of multilingual LLMs using code-switching corpora

- Advisor: Hwaran Lee

Sungnam, Korea

Mar 2024 - Aug 2024

Upstage

DATA MANAGEMENT INTERN

- Construction and management of Korean evaluation benchmark for LLMs

- Advisor: Taehwan Oh and Jiyeon Han

Remote

Aug 2023 - Feb 2024

NAVER AI Lab

VISITING STUDENT

- Construction and management of KoBBQ, Korean bias benchmark for question answering

- Advisor: Hwaran Lee

Sungnam, Korea

Mar 2023 - Jul 2023

LAMDA Lab @ Ajou University

UNDERGRADUATE RESEARCH ASSISTANT

- Study of Deep Learning Model for Bio-signal (EEG) Analysis

- Advisor: Jungryul Seo and Kyung-Ah Sohn

Suwon, Korea

Mar 2020 - Aug 2020

KEPCO Research Institute (KEPRI)

RESEARCH INTERN

- Development of application services utilizing electric used power data

- Advisor: Moonsuk Choi

Daejeon, Korea

Sep 2019 - Feb 2020

Commonwealth Scientific and Industrial Research Organisation (CSIRO)

RESEARCH INTERN

- Development of Convolutional deep neural network for detecting cattle in images/videos

- Advisor: Brano Kusy

QLD, Australia

Jul 2019 - Aug 2019

Indielist

CO-FOUNDER & SOFTWARE ENGINEER

- Establishment of an independent music platform and development of iOS application services

Suwon, Korea

Jul 2018 - Jun 2019

Publications

* denotes equal contributions among authors

INTERNATIONAL CONFERENCES / JOURNALS

RECIPE4U: Student-ChatGPT Dialogue in EFL Writing Education

JIEUN HAN*, HANEUL YOO*, JUNHO MYUNG, MINSUN KIM, TAK YEON LEE, SO-YEON AHN, ALICE OH

[LREC-COLING](#)

May 2024

CLiCK: Evaluation of Cultural and Linguistic Intelligence in Korean

EUNSU KIM, JUYOUNG SUK, PHILHOON OH, HANEUL YOO, JAMES THRONE, ALICE OH

[LREC-COLING](#)

May 2024

KoBBQ: Korean Bias Benchmark for Question Answering

JIHO JIN*, JISEON KIM*, NAYEON LEE*, HANEUL YOO*, ALICE OH, HWARAN LEE

[TACL](#)

May 2024

Rethinking Annotation: Can Language Learners Contribute?

HANEUL YOO, RIFKI AFINA PUTRI, CHANGYOON LEE, YOUNGIN LEE, SO-YEON AHN, DONGYEOP KANG, ALICE OH

[ACL](#)

Jul 2023

Translating Hanja Historical Documents to Understandable Korean and English

JUHEE SON*, JIHO JIN*, HANEUL YOO, JINYEONG BAK, KYUNGHYUN CHO, ALICE OH

[EMNLP, Findings](#)

Dec 2022

HUE: Pretrained Model and Dataset for Understanding Hanja Documents of Ancient Korea

HANEUL YOO, JIHO JIN, JUHEE SON, JINYEONG BAK, KYUNGHYUN CHO, ALICE OH

[NAACL, Findings](#)

Jul 2022

Knowledge-Enhanced Evidence Retrieval for Counterargument Generation

YOHAN JO, HANEUL YOO, JINYEONG BAK, ALICE OH, CHRIS REED, EDUARD HOVY

[EMNLP, Findings](#)

Nov 2021

WORKSHOPS AND POSTERS

Code-Switching Red-Teaming: LLM Evaluation for Safety and Multilingual Understanding

HANEUL YOO, YONGJIN YANG, HWARAN LEE

[NeurIPS Workshop](#)

Dec 2024

DREsS: Dataset for Rubric-based Essay Scoring on EFL Writing

HANEUL YOO, JIEUN HAN, SO-YEON AHN, ALICE OH

[NeurIPS Workshop](#)

Dec 2024

LLM-as-a-tutor in EFL Writing Education: Focusing on Evaluation of Student-LLM Interaction

JIEUN HAN, HANEUL YOO, JUNHO MYUNG, MINSUN KIM, HYUNSEUNG LIM, YOONSU KIM, TAK YEON LEE, HWAJUNG HONG, JUHO KIM, SO-YEON AHN, ALICE OH

[EMNLP Workshop](#)

Nov 2024

LLM-Driven Learning Analytics Dashboard for Teachers in EFL Writing Education

MINSUN KIM, SEONGYEOM KIM, SUYOUN LEE, YOOSANG YOON, JUNHO MYUNG, HANEUL YOO, HYUNSEUNG LIM, JIEUN HAN, YOONSU KIM, SO-YEON AHN, JUHO KIM, ALICE OH, HWAJUNG HONG, TAK YEON LEE

[EMNLP Workshop](#)

Nov 2024

CHOP: Integrating ChatGPT into EFL Oral Presentation Practice

JUNGYOUB CHA, JIEUN HAN, HANEUL YOO, ALICE OH

[EDM Workshop](#)

Jul 2024

RECIPE: How to Integrate ChatGPT into EFL Writing Education

JIEUN HAN*, HANEUL YOO*, YOONSU KIM, JUNHO MYUNG, MINSUN KIM, HYUNSEUNG LIM, JUHO KIM, TAK YEON LEE, HWAJUNG HONG, SO-YEON AHN, ALICE OH

[L@S, Work in Progress](#)

Jul 2023

UNDER REVIEW / PREPRINTS

When Does Classical Chinese Help? Quantifying Cross-Lingual Transfer in Hanja and Kanbun

SEYOUNG SONG, HANEUL YOO, JIHO JIN, KYUNGHYUN CHO, ALICE OH

[preprint](#)

Nov 2024

Code-Switching Curriculum Learning for Multilingual Transfer in LLMs

HANEUL YOO, CHEONBOK PARK, SANGDOO YUN, ALICE OH, HWARAN LEE

[preprint](#)

Nov 2024

MAQA: Evaluating Uncertainty Quantification in LLMs Regarding Data Uncertainty

YONGJIN YANG, HANEUL YOO, HWARAN LEE

[preprint](#)

Aug 2024

HyperCLOVA X Technical Report

HYPERCLOVA X TEAM

[preprint](#)

Apr 2024

DOMESTIC CONFERENCES / JOURNALS

CLiCK: Evaluation of Cultural and Linguistic Intelligence in Korean

EANSU KIM, JUYOUNG SUK, PHILHOON OH, HANEUL YOO, JAMES THRONE, ALICE OH

[JKAlA](#)

[Oct 2023](#)

Image-based Deep Learning Approach for EEG Signal Classification

HANEUL YOO, JUNGRYUL SEO, KYUNG-AH SOHN

[KICS](#)

[Aug 2020](#)

Proposal and Simulation of Optimal Electric Vehicle Routing Algorithm

MOONSUK CHOI, INJI CHOI, MINHAE JANG, HANEUL YOO

[KEPCO](#)

[Mar 2020](#)

Talks

KAIST exploreCSR: Journey of Research “Code-Switching Curriculum Learning”

[Nov 2024](#)

KAIST exploreCSR: Rising Stars 2024 “Multilingual LLM: Alignment between Language and Safety”

[Jun 2024](#)

Naver AI Lab “Code-Switching Red-Teaming: Evaluation and Analysis of LLMs”

[Jun 2024](#)

AI Tech Boostcamp “Several Aspects that We Should Consider about Data-Centric NLP”

[May 2023](#)

AI Tech Boostcamp “The Data You Constructed, Are You Sure It's Okay?”

[Dec 2022](#)

Teaching Experiences

Lecturer AI Tech Boostcamp (Fall 2024) at NAVER Connect Foundation

TA AI Tech Boostcamp (Spring 2023, Fall 2022) at NAVER Connect Foundation

TA Machine Learning for Natural Language Processing (Fall 2023), AI Ethics (Spring 2023), AI and Its Social Impact (Spring 2023), Machine Learning (Fall 2022, Spring 2021), KAIST SoC Colloquium (Fall 2021) at KAIST

Lecturer Python (Spring 2020) at Suwon Information Science High School, Java (Spring 2019) at Maetan High School

Academic Services

Program Committee ML4AL @ ACL (2024)

Workshop Organizer KAIST at NeurIPS (2023), Women in AI at KAIST (2024), International NLP Workshop at KAIST (2024)

Conference Reviewer NeurIPS (2021-), EMNLP (2022), ACL Rolling Review (2023-)

Workshop Reviewer CustomNLP4U @ EMNLP (2024), Red Teaming GenAI @ NeurIPS (2024)

Volunteer FAccT (2022), COLING (2022)

Honors and Awards

Singapore AI Safety Red Teaming Challenge 3rd Place (Team Category)

[Nov 2024](#)

International NLP Workshop at KAIST Best Poster Award

[Aug 2024](#)

BMW Summer School Young Scientists—Travel Grants & Registration Fee Waiver

[Jul 2024](#)

Google exploreCSR AI/CS/EE Rising Stars 2024

[Jun 2024](#)

BrainLink 2023 Invited Participants—Travel Grants & Registration Fee Waiver

[Dec 2023](#)

KAIST KAIST Support Scholarship

[Sep 2020 - Present](#)

Ajou University Graduation with Honors—Summa Cum Laude (1st place)

[Aug 2020](#)

Gyeonggi Volunteer Center Outstanding Volunteer Award

[Jun 2020](#)

BIXPO Special Prize

[Nov 2019](#)

KIPA Creative Start-up Competition—Excellence Award

[Nov 2019](#)

Hyundai Asan Foundation Academic Excellence Scholarship

[Mar 2017 - Aug 2020](#)

References

Alice Oh Professor in School of Computing, KAIST