

# Haneul Yoo

PH.D. CANDIDATE

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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 interest primarily lies in the field of natural language processing and machine learning. Her ultimate goal is to bridge the gap of communication among different cultures and languages with the help of large language models (LLMs). In particular, she is dedicated to (1) data-centric and multilingual NLP and (2) LLM-driven education innovation. She has worked on boosting communications of non-native speakers by (1) enhancing the performances of LLMs, especially in low-resource languages, through the release of datasets and benchmarks 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 - CURRENT

### 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

### Naver AI Lab

RESEARCH INTERN

- Development of multilingual LLMs using code-switching corpora
- Advisor: Hwaran Lee

Sungnam, Korea

Mar 2024 - May 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 STUDENT RESEARCHER

- 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

SOFTWARE ENGINEER & CO-FOUNDER

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

Suwon, Korea

Jul 2018 - Jun 2019

## Publications

\* denotes equal contributions

### 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  
in press

#### CLiCK: Evaluation of Cultural and Linguistic Intelligence in Korean

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

LREC-COLING  
in press

#### KoBBQ: Korean Bias Benchmark for Question Answering

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

TACL  
in press

#### 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

#### Exploring Student-ChatGPT Dialogue in EFL Writing Education

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

NeurIPS Workshop  
Dec 2023

#### 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

#### Understanding the Role of Prompt Analytics Dashboard for EFL Writing Education with Student-ChatGPT Interaction

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

under review

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

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

preprint  
Feb 2024

#### FABRIC: Automated Scoring and Feedback Generation for Essays

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

preprint  
Oct 2023

### DOMESTIC CONFERENCES / JOURNALS

#### CLiCK: Evaluation of Cultural and Linguistic Intelligence in Korean

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

JKAIA  
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, MINHAEE JANG, HANEUL YOO

KEPCO  
Mar 2020

## Talks

**Guest Lecturer** AI Tech Boostcamp, "Several Aspects that We Should Consider about Data-Centric NLP" (May 2023)

**Guest Lecturer** AI Tech Boostcamp, "The Data You Constructed, Are You Sure It's Okay?" (Dec 2022)

## Teaching Experiences

- 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

ACL Workshop (2024)
- Reviewer

NeurIPS (2021, 2023), EMNLP (2022), ACL Rolling Review (2023 –)
- Volunteer

FAcCT (2022), COLING (2022)

## Honors and Awards

- KAIST Support Scholarship

KAIST  
Sep 2020 - Current
- Graduation with Honors

Ajou University  
Aug 2020
- Outstanding Volunteer Award

Gyeonggi Volunteer Center  
Jun 2020
- Special Prize

BIXPO 2019  
Nov 2019
- Excellence Award

KIPA  
Nov 2019
- Academic Excellence Scholarship

Asan Foundation  
Mar 2017 - Aug 2020
- SUMMA CUM LAUDE (1ST PLACE)

## References

- Alice Oh

Professor in School of Computing, KAIST