

# Haneul Yoo

PH.D. STUDENT

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## About

Haneul Yoo is a Ph.D. student advised by Alice Oh in the School of Computing at KAIST. Her research interest primarily lies in the field of natural language processing and machine learning. In particular, she is dedicated to (1) data-centric and multilingual NLP and (2) LLM-driven education innovation. She believes there are still myriads of underrepresented languages in NLP, and our efforts on low-resource languages can build more culturally-diverse language models. She also believes recent advances in AI can assist language learners, and researchers can leverage them to enhance NLP data and techniques as well.

## 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. DOUBLE MAJOR IN COMPUTER SCIENCE AND ENGINEERING AND DIGITAL MEDIA, GRADUATION WITH HONORS

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

Suwon, Korea

Mar 2017 - Aug 2020

## Experience

### 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

RESEARCH INTERN

- Study of Deep Learning Model for Bio-signal (EEG) Analysis
- Advisor: Jungryul Seo and Kyung-Ah Sohn

Suwon, Korea

Mar 2020 - Aug 2020

### KEPRI

RESEARCH INTERN

- Development of application services utilizing electric used power data
- Advisor: Moonsuk Choi

Daejeon, Korea

Sep 2019 - Feb 2020

### 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

### 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, AND ALICE OH

under review

### KoBBQ: Korean Bias Benchmark for Question Answering

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

preprint

Jul 2023

### Rethinking Annotation: Can Language Learners Contribute?

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

ACL 2023

Jul 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, AND ALICE OH

L@S 2023, Work in Progress

Jul 2023

### Translating Hanja Historical Documents to Understandable Korean and English

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

EMNLP 2022, 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, AND ALICE OH

NAACL 2022, Findings

Jul 2022

### Knowledge-Enhanced Evidence Retrieval for Counterargument Generation

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

EMNLP 2021, Findings

Nov 2021

### Image-based Deep Learning Approach for EEG Signal Classification

HANEUL YOO, JUNGRYUL SEO, AND KYUNG-AH SOHN

KICS Summer Conference 2020

Aug 2020

### Proposal and Simulation of Optimal Electric Vehicle Routing Algorithm

MOONSUK CHOI, INJI CHOI, MINHAEE JANG, AND HANEUL YOO

KEPCO 2020

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** AI Ethics (Spring 2023), AI and Its Social Impact (Spring 2023), KAIST SoC Colloquium (Fall 2021), Machine Learning (Fall 2022, Spring 2021) at KAIST

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

## Academic Services

**Volunteer** FAccT (2022), COLING (2022)

**Reviewer** NeurIPS (2021, 2023), EMNLP (2022)

## Honors and Awards

### KAIST Support Scholarship

KAIST

Sep 2020 - Current

### Graduation with Honors

SUMMA CUM LAUDE (1ST PLACE)

Ajou University

Aug 2020

### Outstanding Volunteer Award

Gyeonggi Volunteer Center

Jun 2020

### Special Prize

BIXPO 2019

BIXPO

Nov 2019

### Excellence Award

CREATIVE START-UP COMPETITION

KIPA

Nov 2019

### Academic Excellence Scholarship

Asan Foundation

Mar 2017 - Aug 2020

## References

**Alice Oh** Professor in School of Computing, KAIST