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   *Daejeon, Korea*
PH.D. IN SCHOOL OF COMPUTING   *Sep 2022 - CURRENT*
- Advisor: Alice Oh

KAIST   *Daejeon, Korea*
M.S. IN SCHOOL OF COMPUTING   *Sep 2020 - Aug 2022*
- Advisor: Alice Oh

Ajou University   *Suwon, Korea*
B.S. IN COMPUTER SCIENCE AND ENGINEERING
B.S. IN DIGITAL MEDIA   *Mar 2017 - Aug 2020*
- **University of Wisconsin - Stout**, WI, USA — *Semester Abroad Winter 2018*

Experience

Naver AI Lab   *Sungnam, Korea*
RESEARCH INTERN   *Mar 2024 - May 2024*
- Development of multilingual LLMs using code-switching corpora
- Advisor: Hwaran Lee

Upstage   *Remote*
DATA MANAGEMENT INTERN   *Aug 2023 - Feb 2024*
- Construction and management of Korean evaluation benchmark for LLMs
- Advisor: Taehwan Oh and Jiyoon Han

Naver AI Lab   *Sungnam, Korea*
VISITING STUDENT   *Mar 2023 - Jul 2023*
- Construction and management of KoBBQ, Korean bias benchmark for question answering
- Advisor: Hwaran Lee

LAMDA Lab @ Ajou University   *Suwon, Korea*
UNDERGRADUAGE STUDENT RESEARCHER   *Mar 2020 - Aug 2020*
- Study of Deep Learning Model for Bio-signal (EEG) Analysis
- Advisor: Jungryul Seo and Kyung-Ah Sohn

KEPCO Research Institute (KEPRI)   *Daejeon, Korea*
RESEARCH INTERN   *Sep 2019 - Feb 2020*
- Development of application services utilizing electric used power data
- Advisor: Moonsuk Choi

Commonwealth Scientific and Industrial Research Organisation (CSIRO)   *QLD, Australia*
RESEARCH INTERN   *Jul 2019 - Aug 2019*
- Development of Convolutional deep neural network for detecting cattle in images/videos
- Advisor: Brano Kusy

Indielist   *Suwon, Korea*
SOFTWARE ENGINEER & CO-FOUNDER   *Jul 2018 - Jun 2019*
- Establishment of an independent music platform and development of iOS application services

Publications

International Conferences / Journals

RECIPE4U: Student-ChatGPT Dialogue in EFL Writing Education
LREC-COLING
Jieun Han*, **Haneul Yoo***, Junho Myung, Minsun Kim, Tak Yeon Lee, So-Yeon Ahn, Alice Oh
in press

CLIcK: Evaluation of Cultural and Linguistic Intelligence in Korean
LREC-COLING
Eunsu Kim, Juyoung Suk, Philhoon Oh, **Haneul Yoo**, James Throne, Alice Oh
in-press

KoBBQ: Korean Bias Benchmark for Question Answering
TACL
Jiho Jin*, Jiseon Kim*, Nayeon Lee*, **Haneul Yoo***, Alice Oh, Hwaran Lee
in press

Rethinking Annotation: Can Language Learners Contribute?
ACL
Haneul Yoo, Rifki Afina Putri, Changyoon Lee, Youngin Lee, So-Yeon Ahn, Dongyeop Kang, Alice Oh
Jul 2023

Translating Hanja Historical Documents to Understandable Korean and English
EMNLP, Findings
Juhee Son*, Jiho Jin*, **Haneul Yoo**, JinYeong Bak, Kyunghyun Cho, Alice Oh
Dec 2022

HUE: Pretrained Model and Dataset for Understanding Hanja Documents of Ancient Korea
NAACL, Findings
Haneul Yoo, Jiho Jin, Juhee Son, JinYeong Bak, Kyunghyun Cho, Alice Oh
Jul 2022

Knowledge-Enhanced Evidence Retrieval for Counterargument Generation
EMNLP, Findings
Yohan Jo, **Haneul Yoo**, JinYeong Bak, Alice Oh, Chris Reed, Eduard Hovy
Nov 2021

Workshops and Posters

Exploring Student-ChatGPT Dialogue in EFL Writing Education
NeurIPS Workshop
Jieun Han*, **Haneul Yoo***, Junho Myung, Minsun Kim, Tak Yeon Lee, So-Yeon Ahn, Alice Oh
Dec 2023

RECIPE: How to Integrate ChatGPT into EFL Writing Education
L@S, Work in Progress
Jieun Han*, **Haneul Yoo***, Yoonsu Kim, Junho Myung, Minsun Kim, Hyunseung Lim, Juho Kim, Tak Yeon Lee,
Hwajung Hong, So-Yeon Ahn, Alice Oh
Jul 2023

Under Review / Preprints

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

DREsS: Dataset for Rubric-based Essay Scoring on EFL Writing
preprint
Haneul Yoo, Jieun Han, So-Yeon Ahn, Alice Oh
Feb 2024

FABRIC: Automated Scoring and Feedback Generation for Essays
preprint
Jieun Han*, **Haneul Yoo***, Junho Myung, Minsun Kim, Hyunseung Lim, Yoonsu Kim, Tak Yeon Lee, Hwajung Hong,
Juho Kim, So-Yeon Ahn, Alice Oh
Oct 2023

Domestic Conferences / Journals

CLIcK: Evaluation of Cultural and Linguistic Intelligence in Korean
JKAIA
Juyoung Suk*, Eunsu Kim*, Philhoon Oh, **Haneul Yoo**, James Throne, Alice Oh
Oct 2023

Image-based Deep Learning Approach for EEG Signal Classification
KICS
Haneul Yoo, Jungryul Seo, Kyung-Ah Sohn
Aug 2020

Proposal and Simulation of Optimal Electric Vehicle Routing Algorithm
KEPCO
Moonsuk Choi, Inji Choi, Minhae Jang, **Haneul Yoo**
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*
Summa Cum Laude (1st place) — *Aug 2020*

Outstanding Volunteer Award — *Gyeonggi Volunteer Center*
Jun 2020

Special Prize — *BIXPO*
BIXPO 2019 — *Nov 2019*

Excellence Award — *KIPA*
Creative Start-up Competition — *Nov 2019*

Academic Excellence Scholarship — *Asan Foundation*
Mar 2017 - Aug 2020

References

Alice Oh   Professor in School of Computing, KAIST