

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 2020

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

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