

# 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. She will earn her M.S. degree in August and start her Ph.D. program in September. Her research interest primarily lies in the intersection of natural language processing and computational social science. In particular, she mainly works on (1) understanding historical documents in low-resource languages and (2) applying and utilizing NLP in language education. 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 language learners can contribute to NLP techniques and data and vice versa.

## 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

### 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

- 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

### Rethinking Annotation: Can Language Learners Contribute?

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

(under review)

Jun 2022

### Translating Hanja Historical Documents to Understandable Korean and English

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

arXiv preprint (under review)

May 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 Findings

Jul 2022

## Knowledge-Enhanced Evidence Retrieval for Counterargument Generation

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

EMNLP Findings

Nov 2021

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

HANEUL YOO, JUNGRYUL SEO, AND KYUNG-AH SOHN

KICS Summer Conference

Aug 2020

## Proposal and Simulation of Optimal Electric Vehicle Routing Algorithm

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

KEPCO Journal

Mar 2020

## Talks and Teachings

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**TA** KAIST SoC Colloquium (Fall 2021), Machine Learning (Spring 2021, Fall 2022)

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

## Academic Services

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**Volunteer** FAccT (2022)

**Reviewer** NeurIPS Track on Datasets and Benchmarks (2021), EMNLP (2022)

## Honors and Awards

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### 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

## Skills

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**Languages** Python, JavaScript, C++, Java, Ruby, Swift

**Frameworks** PyTorch, Tensorflow, Keras, Docker, AWS, Django, Flask, Vue, React