# Philhoon **Oh**

■ philhoonoh@kaist.ac.kr | 😭 https://philhoonoh.github.io/ | 🖸 philhoonoh

# **Research Interest**

My research interests primarily encompass Information Retrieval (IR) and Question Answering (QA). I aim to explore how language, whether in conversations, audio, or text, can be represented as question + external information = answer. My specific areas of focus include Open-Domain Question Answering, Fact Verification, and addressing the challenge of Hallucination or Confabulation in responses.

# Education \_\_\_\_

Korea Advanced Institute of Science and Technology W.S. IN Artificial Intelligence	Seoul, S.Korea Mar. 2023 - Present
University of California, Berkeley	Berkeley, CA USA
B.A. IN STATISTICS	Aug. 2012 - Aug. 2017
Publications	
CLIcK: A Benchmark Dataset of Cultural and Linguistic Intelligence in Korean	LREC-COLING 2024
Eunsu Kim, Juyoung Suk, Philhoon Oh, Haneul Yoo, James Thorne and Alice Oh	Feb. 2024
In the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation, 2024	
Detrimental Contexts in Open-Domain Question Answering	EMNLP Findings
Philhoon Oh, and James Thorne	Sep. 2023
In The 2023 Conference on Empirical Methods in Natural Language Processing, 2023	
Knowledge Corpus Error in Question Answering	EMNLP Findings
Yejoon Lee, <b>Philhoon Oh</b> , and James Thorne	Sep. 2023

• In The 2023 Conference on Empirical Methods in Natural Language Processing, 2023

# Work Experience

<ul> <li>NAVER Corp</li> <li>RESEARCH INTERN</li> <li>Designed a pipeline to generate datasets to train Korean evaluation models.</li> <li>Refined the evaluation model, achieving a Pearson Correlation of 0.846, compared to the baseline of 0.698</li> </ul>	<mark>Gyeonggi-do, S.Korea</mark> Jan. 2024 - Feb. 2024
<ul> <li>SK Inc. C&amp;C</li> <li>NLP ENGINEER &amp; PL</li> <li>Developed NLP framework based on Pytorch for various NLP models and subsequent tasks.</li> <li>Designed pipelines for NLP tasks including MRC, ODQA, Keyword Extraction.</li> <li>Implemented automated pipeline for Korean Text Crawling and Pre-processing.</li> <li>Led NLP Keyword Extraction project.</li> </ul>	<mark>Gyeonggi-do, S.Korea</mark> Jan. 2019 - Feb. 2022
Anemone Boutique LLC Marketing Analyst	Santa Monica, CA USA Oct. 2017 - Mar. 2018

MARKETING ANALYST

• Analyzed the impacts of different marketing strategies.

• Implemented time series analysis (SARIMA) on previous quarters data to predict future sales.

# Teaching Experience

### **ChatGPT Project**

GRADUATE STUDENT ADVISOR

- Conducted research on how ChatGPT works with non-English languages advised by James Thorne and Alice Oh.
- Mentored undergraduate students at KAIST on ChatGPT and fundamental NLP research topics.
- Led and guided undergraduate students in a research project; paper accepted at LREC-COLING 2024.

# Projects\_\_\_\_\_

Seoul, S.Korea Feb. 2023 - Dec. 2023

#### **Korean ODQA Project**

#### NLP ENGINEER

- Developed a Korean ODQA (Open Domain Question Answering) feature.
- Achieved performance improvements on datasets, including Korquad v1, AI common sense, and the XX hospital dataset.

#### **Chatbot PoC**

NLP Engineer

- Demonstrated the Open-Domain Question Answering (ODQA) feature to one of the largest hospitals in Korea, the client
- The ODQA feature was integrated as an NLP feature through a PoC.

### Survey Project

NLP Engineer & PL

- Developed a survey feedback tool for the SK SUPEX Council (Consultative Panel within SK Group).
- Implemented the Keyword Extractor module to collect feedback from anonymous ethical surveys.

#### **NLP Framework**

NLP ENGINEER

- Participated in developing an integrated NLP framework based on PyTorch.
- Designed a new architecture to support various NLP models based on tasks and features.
- Developed unit tests for the framework using the pytest module.

### Honors & Awards.

- 2023 2nd Place, 2023 AI Graduate School Challenge hosted by Korea Ministry of Science and ICT
- 2017 **Manga Cum Laude**, High Distinction in General Scholarship at graduation

Jul. 2021 - Dec. 2021

Gyeonggi-do, S.Korea

### Gyeonggi-do, S.Korea Jul. 2021 - Sep. 2021

Gyeonggi-do, S.Korea

Jul. 2021 - Aug. 2021

#### Gyeonggi-do, S.Korea

Jan. 2021 - Jun. 2021

Seoul, S.Korea Berkeley, CA USA