

# Philhoon Oh

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## 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

M.S. IN ARTIFICIAL INTELLIGENCE

Advisor: James Thorne

[Seoul, S.Korea](#)

Mar. 2023 - Present

### University of California, Berkeley

B.A. IN STATISTICS

[Berkeley, CA USA](#)

Aug. 2012 - Aug. 2017

## Publications

### Detrimental Contexts in Open-Domain Question Answering

PHILHOON OH, AND JAMES THORNE

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

[EMNLP Findings](#)

Sep. 2023

### Knowledge Corpus Error in Question Answering

YEJOON LEE, PHILHOON OH, AND JAMES THORNE

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

[EMNLP Findings](#)

Sep. 2023

## Work Experience

### SK Inc. C&C

NLP ENGINEER & PL

- Developed NLP framework based on Pytorch for various NLP models and subsequent tasks.
- Designed pipelines for NLP tasks including MRC, ODQA, Keyword Extraction.
- Implemented automated pipeline for Korean Text Crawling and Pre-processing.
- Led NLP Keyword Extraction project.

[Gyeonggi-do, S.Korea](#)

Jan. 2019 - Feb. 2022

### Anemone Boutique LLC

MARKETING ANALYST

- Analyzed the impacts of different marketing strategies.
- Implemented time series analysis (SARIMA) on previous quarters data to predict future sales.

[Santa Monica, CA USA](#)

Oct. 2017 - Mar. 2018

## Projects

### 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.

[Gyeonggi-do, S.Korea](#)

Jul. 2021 - Dec. 2021

### 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.

[Gyeonggi-do, S.Korea](#)

Jul. 2021 - Sep. 2021

### Survey Project

NLP ENGINEER & PL

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

[Gyeonggi-do, S.Korea](#)

Jul. 2021 - Aug. 2021

## 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.

*Gyeonggi-do, S.Korea*

*Jan. 2021 - Jun. 2021*

## Honors & Awards

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2023    **2nd Place**, 2023 AI Graduate School Challenge

*Seoul, S.Korea*

2017    **Magna Cum Laude**, High Distinction in General Scholarship at graduation

*Berkeley, CA USA*