

Miyoung Ko

Homepage: <https://miyoungko.github.io>

4th. year Ph.D. Student in Graduate School of AI

Language and Knowledge Lab

KAIST

miyoungko@kaist.ac.kr

+82-10-9946-5845

RESEARCH INTERESTS

Fact Verification, Hallucination, Knowledge-augmented generation, Interpretability / Analysis of NLP Models

EDUCATION

Korea University, College of Science, Seoul

GPA : 4.23 / 4.50

B.S., Department of Chemistry

Mar 2014 - Aug 2018

Korea University, College of Informatics, Seoul

B.S. (Double Major), Department of Computer Science and Engineering

Mar 2014 - Aug 2018

Advisor: Prof. Jongseung Kim

Korea University, College of Informatics, Seoul

GPA : 4.50 / 4.50

M.S., Department of Computer Science and Engineering

Sep 2018 - Aug 2020

Advisor: Prof. Jaewoo Kang

Korea Advanced Institute of Science and Technology (KAIST), Seoul

GPA: 4.15 / 4.30

Ph.D student, Graduate School of AI

Mar 2021- Present

Advisor: Prof. Minjoon Seo

PUBLICATIONS

Investigating How Large Language Models Leverage Internal Knowledge to Perform Complex Reasoning [\[pdf\]](#) [\[dataset\]](#) [\[code\]](#)

EMNLP 2024 (Full)

Miyoung Ko*, Sue Hyun Park*, Joonsuk Park, Minjoon Seo

The BiGGen Bench: A Principled Benchmark for Fine-grained Evaluation of Language Models with Language Models [\[pdf\]](#) [\[dataset\]](#)

Preprint (ArXiv)

Seungone Kim, Juyoung Suk, Ji Yong Cho, Shayne Longpre, Chaeun Kim, Dongkeun Yoon, Guijin Son, Yejin Cho, Sheikh Shafayat, Jinheon Baek, Sue Hyun Park, Hyeonbin Hwang, Jinkyung Jo, Hyowon Cho, Haebin Shin, Seongyun Lee, Hanseok Oh, Noah Lee, Namgyu Ho, Se June Joo, **Miyoung Ko**, Yoonjoo Lee, Hyungjoo Chae, Jamin Shin, Joel Jang, Seonghyeon Ye, Bill Yuchen Lin, Sean Welleck, Graham Neubig, Moontae Lee, Kyungjae Lee, Minjoon Seo

KTRL+F: Knowledge-Augmented In-Document Search [\[pdf\]](#) [\[code\]](#)

NAACL 2024

Hanseok Oh, Haebin Shin, **Miyoung Ko**, Hyunji Lee, Minjoon Seo

ClaimDiff: Comparing and Contrasting Claims on Contentious Topics [\[pdf\]](#) [\[dataset\]](#)

Findings of ACL 2023

Miyoung Ko, Ingyu Seong, Hwaran Lee, Joonsuk Park, Minsuk Chang, Minjoon Seo

Look at the First Sentence: Position Bias in Question Answering [\[pdf\]](#) [\[code\]](#)

EMNLP 2020 (Full)

Miyoung Ko, Jinhyuk Lee, Hyunjae Kim, Gangwoo Kim, Jaewoo Kang

Answering Questions on COVID-19 in Real-Time [\[pdf\]](#)

EMNLP 2020

Jinhyuk Lee, Sean S. Yi, Minbyul Jeong, Mujeen Sung, Wonjin Yoon, Yonghwa Choi,

NLP-COVID

Miyoung Ko, Jaewoo Kang

Workshop

SAIN: Self-Attentive Integration Network for Recommendation [pdf] Seongjun Yun, Raehyun Kim, Miyoung Ko , Jaewoo Kang	SIGIR 2019 (Short)
ReSimNet : Drug Response Similarity Prediction based on Siamese Neural Network [pdf] Minji Jeon*, Donghyeon Park*, Jinhyuk Lee, Hwisang Jeon, Miyoung Ko , Sunkyu Kim, Yonghwa Choi, Aik-Choon Tan, Jaewoo Kang	Bioinformatics (2019)
Ranking Paragraphs for Improving Answer Recall in Open-Domain Question Answering [pdf] Jinhyuk Lee, Seongjun Yun, Hyunjae Kim, Miyoung Ko , Jaewoo Kang	EMNLP 2018 (Short)
Name Nationality Classification with Recurrent Neural Networks [pdf] Jinhyuk Lee, Hyunjae Kim, Miyoung Ko , Donghee Choi, Jaehoon Choi, Jaewoo Kang	IJCAI 2017 (Full)

EXPERIENCE

Amazon Science, Santa Clara, United States Applied Scientist Intern - Improving RAG on temporal question answering	Oct 2024 - Present
NAVER Corp., Seongnam, South Korea Research Intern, Clova AI - Worked on developing unsupervised intent classification system based on the domain adaptation technique	Sep 2020 – Feb 2021

CHALLENGES & PROJECTS

Kaggle COVID-19 Open Research Dataset Challenge (CORD-19) Open covidAsk (real-time QA systems): https://covidask.korea.ac.kr/ - Evaluation guideline and additional QA data	Apr 2020
Multi-Targeting Drug DREAM Challenge (1st. Place) - Build model utilizing molecular graph input	Nov 2018

TEACHING

(KAIST AI620) Bias and Ethics in Natural Language Processing Teaching Assistant	Spring 2023
(KAIST AI599) Special Topics in Machine Learning <AI for Law> Teaching Assistant	Fall 2022
(KAIST AI605) Deep Learning for NLP Teaching Assistant	Spring 2021, Fall 2021, Spring 2022, Fall 2023

INVITED TALK

Position Bias in Question Answering <i>Naver</i>	2021 Feb
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HONORS

SBS Foundation Scholarship	Sep 2019 – Aug 2020
Semester High Honors 2nd. Sem. 2014, 1st. Sem. 2015, 2nd. Sem. 2015, 1st. Sem. 2016, 1st. Sem. 2017	
National Science and Engineering Scholarship	Mar 2016 – Aug 2018
Samsung Welfare Foundation Scholarship	Mar 2016
Honors Scholarship, Korea University	Sep 2014, Mar 2015
Science Prodigy Scholarship, Korea University	Mar 2014