I am a PhD student in the Department of Computer Science and Engineering at Korea University ([DMIS Lab](#)) advised by Prof. [Jaewoo Kang](#).
My research areas of interest are **natural language processing (NLP)**, **information extraction**, and **representation learning**.

Education

Korea University

PhD Student • Mar.2019 — Present

MS, PhD integrated in Data Mining and Information Systems Lab

Korea University

Bachelor's degree • Mar.2008 — Feb.2015

B.S in Division of Computer and Communication Engineering

Publications

Can Language Models be Biomedical Knowledge Bases?

Mujeen Sung, Jinhyuk Lee, Sean S. Yi, Minji Jeon, Sungdong Kim and Jaewoo Kang

EMNLP, 2021 (Short)
[TBA]

Learning Dense Representations of Phrases at Scale

Jinhyuk Lee, **Mujeen Sung**, Jaewoo Kang, Danqi Chen

ACL, 2021 (Long)
[Paper] [Code] [Demo]

Adversarial Subword Regularization for Robust Neural Machine Translation

Jungsoo Park, **Mujeen Sung**, Jinhyuk Lee and Jaewoo Kang

Findings of EMNLP, 2020 (Short)
[Paper] [Code]

Biomedical Entity Representations with Synonym Marginalization

Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang

ACL, 2020 (Long)
[Paper] [Code]

A Neural Named Entity Recognition and Multi-Type Normalization Tool for Biomedical Text Mining

Donghyeon Kim, Jinhyuk Lee, Chan Ho So, Hwisang Jeon, Minbyul Jeong, Yonghwa Choi, Wonjin Yoon, **Mujeen Sung** and Jaewoo Kang

IEEE Access, 2019
[Paper] [Code] [Demo]

Workshops

Data-centric and model-centric approaches for biomedical question answering

Wonjin Yoon, Jaehyo Yoo, Sumin Seo, **Mujeen Sung**, Minbyul Jeong, Gangwoo Kim, Jaewoo Kang

CLEF, 2021 Workshop 9th BioASQ
[Paper]

Answering Questions on COVID-19 in Real-Time

Jinhyuk Lee, Sean S. Yi, Minbyul Jeong, **Mujeen Sung**, WonJin Yoon, Yonghwa Choi, Miyoung Ko and Jaewoo Kang

EMNLP, 2020 Workshop NLP-COVID
[Paper] [Code] [Demo]

Transferability of Natural Language Inference to Biomedical Question Answering

Minbyul Jeong*, **Mujeen Sung***, Gangwoo Kim, Donghyeon Kim, Wonjin Yoon, Jaehyo Yoo and Jaewoo Kang

CLEF, 2020 Workshop 8th BioASQ
[Paper] [Code]

Work Experiences

Lemon Cloud

Backend Developer • Mar, 2018 — Feb, 2019

- Develop backend service with Node.js, Elastic Search and AWS.
- Lemon Cloud is a start-up company that provides E-Commerce Platforms.

GE Ultrasound Korea

Software Engineer • Jan, 2015 — Feb, 2018

- Design User Interfaces in Ultrasound Imaging Systems with Visual C++/MFC.
- GE Ultrasound Korea is a Healthcare corporation that develops and manufactures ultrasound imaging systems to the global Healthcare market.

Kona I

Software Team Intern • Jan, 2014 — Aug, 2014

- Create a validation tool for cryptography algorithms on Smart Card with Java.
- Kona I is an IT corporation that provides total solutions and platforms to the global Fin-tech market.

Recognition

OnDream Future Technology Scholarship

Hyundai Motor Chung Mong-Koo Foundation • 2021

2020 KU Graduate School Achievement Award

Korea University • 2021

Invited talker in Tech Talk at Naver

Naver • 2021

Invited talker in the Top Conference session at KSC 2020

Korea Software Congress 2020 • 2020

The winner of the BioASQ challenge in 8b Phase B

CLEF, 2020 Workshop 8th BioASQ • 2020

(News)

Social Links

- **Github**: https://github.com/mjeensung
- **Twitter**: http://twitter.com/mujeensung