

# Mujeen Sung

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 in natural language processing and deep learning. Specifically, I enjoy thinking about how to make artificial intelligence better extract knowledge from large-scale corpus (e.g., [Wikipedia](#) in general domain or [PubMed](#) in biomedical domain).

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## Education

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### *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

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## Publications

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### *Can Language Models be Biomedical Knowledge Bases?*

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

EMNLP, 2021 (Short)

[\[Paper\]](#) [\[Code\]](#)

### *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

[\[Paper\]](#) [\[Code\]](#) [\[Demo\]](#)

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## Workshops

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### *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

[\[Paper\]](#) [\[Code\]](#)

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## **Work Experiences**

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### ***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.

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## **Recognition**

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### ***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

[\(News\)](#)

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## **Social Links**

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