

Hyunjae Kim

PERSONAL INFORMATION

ADDRESS: 501B, 12-2, Goryeodae-ro 22-gil, Seongbuk-gu, Seoul, Republic of Korea
 PHONE: +82 10 5329 9402
 EMAIL: hyunjae-kim@korea.ac.kr
 WEBSITE: <https://nowkim.github.io>

RESEARCH INTERESTS

Named Entity Recognition (NER), Question Answering (QA), Biomedical Natural Language Processing (BioNLP)

EDUCATION

September, 2017 - Present	Ph.D. Student in Computer Science Advisor: Jaewoo Kang	Korea University
March, 2013 - August, 2017	B.S. in Mathematics B.S. in Convergence Software (double major)	Sogang University

PUBLICATIONS

International Conferences

- Gangwoo Kim, **Hyunjae Kim**, Jungsoo Park, and Jaewoo Kang. Learn to resolve conversational dependency: A consistency training framework for conversational question answering. *ACL*, 2021
- Buru Chang, Inggeol Lee, **Hyunjae Kim**, and Jaewoo Kang. “killing me” is not a spoiler: Spoiler detection model using graph neural networks with dependency relation-aware attention mechanism. *EACL*, 2021
- Miyoung Ko, Jinhyuk Lee, **Hyunjae Kim**, Gangwoo Kim, and Jaewoo Kang. Look at the first sentence: Position bias in question answering. In *EMNLP*, pages 1109–1121, 2020
- Raehyun Kim[†], **Hyunjae Kim**[†], Janghyuk Lee, and Jaewoo Kang. Predicting multiple demographic attributes with task specific embedding transformation and attention network. In *SDM*, pages 765–773, 2019
- Buru Chang, **Hyunjae Kim**, Raehyun Kim, Deahan Kim, and Jaewoo Kang. A deep neural spoiler detection model using a genre-aware attention mechanism. In *PAKDD*, pages 183–195, 2018
- Jinhyuk Lee, Seongjun Yun, **Hyunjae Kim**, Miyoung Ko, and Jaewoo Kang. Ranking paragraphs for improving answer recall in open-domain question answering. In *EMNLP*, pages 565–569, 2018
- Jinhyuk Lee, **Hyunjae Kim**, Miyoung Ko, Donghee Choi, Jaehoon Choi, and Jaewoo Kang. Name nationality classification with recurrent neural networks. In *IJCAI*, pages 2081–2087, 2017

Preprints

- Hyunjae Kim**, Jaehyo Yoo, Seunghyun Yoon, Jinhyuk Lee, and Jaewoo Kang. Simple questions generate named entity recognition datasets. *arXiv preprint arXiv:2112.08808*, 2021

International Journals

- Hyunjae Kim** and Jaewoo Kang. How do your biomedical named entity recognition models generalize to novel entities? *IEEE Access*, 2022
- Hyunjae Kim**[†], Yookyung Koh[†], Jinheon Baek, and Jaewoo Kang. Exploring the spatial reasoning ability of neural models in human iq tests. *Neural Networks*, 2021
- Sungjoon Park[†], Yookyung Koh[†], Hwisang Jeon[†], **Hyunjae Kim**, Yoonsun Yeo, and Jaewoo Kang. Enhancing the interpretability of transcription factor binding site prediction using attention mechanism. *Scientific reports*, 10(1):1–10, 2020

Workshop Papers

1. Hyunjae Kim, Mujeen Sung, Wonjin Yoon, Sungjoon Park, and Jaewoo Kang. Improving tagging consistency and entity coverage for chemical identification in full-text articles. *BioCreative VII*, 2021
2. Wonjin Yoon, Sean Yi, Richard Jackson, Hyunjae Kim, Sunkyu Kim, and Jaewoo Kang. Using knowledge base to refine data augmentation for biomedical relation extraction. *BioCreative VII*, 2021

†: equal contributions.

HONORS / AWARDS

- **Research Fellowship by Korea University** (February, 2022)
- **1st Place in BioCreative VII NLM-Chem Track, Named Entity Recognition** (November, 2021)
 - Outperformed NVIDIA (3th).
 - Participated as the team leader.
- **3st Place in BioCreative VII DrugProt Track** (November, 2021)
 - Outperformed University of Texas (4th), NVIDIA (11th), and ETH Zurich (19th).
- **Research Encouragement Scholarship by Korea University** (October, 2021)
- **Gift Funding by Adobe Research** (September, 2021)

LEADERSHIP / TEACHING EXPERIENCE

LEADERSHIP	· Leader of DMIS lab (June, 2020 - June, 2021) · Mentor for undergraduate and new coming students at DMIS lab (August, 2018 - September, 2019)
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TEACHING ASSISTANT	· COSE362 Machine Learning (Fall, 2018)
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ACADEMIC SERVICES

PEER REVIEWING	Reviewer EMNLP 2021, AAAI 2022
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