

Minbyul Jeong

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Experience

Upstage Aug. 2024 – Current
Principal Researcher Engineer for Large Language Model Team Seoul

Education

Korea University Mar. 2019 – Aug. 2024
Ph.D (MS Integrated) Student, Computer Science & Engineering Seoul

Korea University Mar. 2015 – Feb. 2019
B.Sc., Computer Science & Engineering Seoul

Awards & Honors

BioASQ 9B **1st place**
A challenge on large-scale biomedical semantic indexing and question answering 2021

BioASQ 8B **1st place**
A challenge on large-scale biomedical semantic indexing and question answering 2020

BioASQ 7B **1st place**
A challenge on large-scale biomedical semantic indexing and question answering 2019

Publications

[C13] Chanwoong Yoon, Taewhoo Lee, Hyeon Hwang, **Minbyul Jeong**[†], and Jaewoo Kang[†], "CompAct: Compressing Retrieved Documents Actively for Question Answering". In: Proceedings of EMNLP. 2024. 2024. [\[Github\]](#) [\[Paper\]](#)

[C12] **Minbyul Jeong**, Jiwoong Sohn, Mujeen Sung, Jaewoo Kang, "Improving Medical Reasoning through Retrieval and Self-Reflection with Retrieval-Augmented Large Language Models". arXiv preprint. 2024. [\[Github\]](#) [\[Paper\]](#)

[C11] **Minbyul Jeong**, Jaewoo Kang, "Consistency enhancement of model prediction on document-level named entity recognition". In: Proceedings of Bioinformatics. 2023. [\[Github\]](#) [\[Paper\]](#)

[C10] Mujeen Sung*, **Minbyul Jeong***, Yonghwa Choi, Donghyeon Kim, Jinhyuk Lee, Jaewoo Kang, "BERN2 an advanced neural biomedical named entity recognition and normalization tool". In: Proceedings of Bioinformatics Appnote. 2022 [\[Github\]](#) [\[Paper\]](#)

[C9] Seongjun Yun, **Minbyul Jeong**, Sungdong Yoo, Seunghun Lee, SeanS. Yi, Raehyun Kim, Jaewoo Kang, Hyunwoo J. Kim, "Graph Transformer Networks Learning Meta-path Graphs to Improve GNNs". In: Proceedings of Neural Networks. 2022. [\[Github\]](#) [\[Paper\]](#)

[C8] Wonjin Yoon, Jaehyo Yoo, Sumin Seo, Mujeen Sung, **Minbyul Jeong**, Gangwoo Kim, Jaewoo Kang, "Data-Centric and ModelCentric Approaches for Biomedical Question Answering". In: Proceedings of CLEF 2021. [\[Github\]](#) [\[Paper\]](#)

[C7] Meijun Liu, Yi Bu, Chongyan Chen, Jian Xu, Daifeng Li, Yan Leng, Richard Barry Freeman, Eric Meyer, Wonjin Yoon, Mujeen Sung, **Minbyul Jeong**, Jinhyuk Lee, Jaewoo

Kang, Chao Min, Min Song, Yujia Zhai, Ying Ding, "Pandemics are catalysts of scientific novelty: Evidence from COVID-19". In: Proceedings of Europe PMC. 2021 [[Paper](#)]

[C6] Minbyul Jeong, Mujeen Sung, Gangwoo Kim, Donghyeon Kim, Wonjin Yoon, Jaehyo Yoo, Jaewoo Kang, "Transferability of Natural Language Inference to Biomedical Question Answering". In: Proceedings of CLEF 2020. [[Github](#)] [[Paper](#)]

[C5] Jinhyuk Lee, Sean S. Yi, **Minbyul Jeong**, Mujeen Sung, Wonjin Yoon, Yonghwa Choi, Miyoung Ko, Jaewoo Kang, "Answering Questions on COVID-19 in Real-Time". In: Proceedings of 1st Workshop on NLP for COVID-19 (Part 2) at EMNLP 2020 [[Github](#)] [[Paper](#)]

[C4] Jian Xu, Sunkyu Kim, Min Song, **Minbyul Jeong**, Donghyeon Kim, Jaewoo Kang, Justing F. Rousseau, Xin Li, Weijia Xu, Vetle I. Torvik, Yi Bu, Chongyan Chen, Islam Akef Ebeid, Daifeng Li, Ying Ding "Building a PubMed knowledge graph". In: Proceedings of Scientific Data. 2020. [[Paper](#)]

[C3] Seongjun Yun, **Minbyul Jeong**, Raehyun Kim, Jaewoo Kang, Hyunwoo J. Kim, "Graph Transformer Networks", In: Proceedings of NeurIPS. 2019. [[Github](#)] [[Paper](#)]

[C2] Wonjin Yoon, Jinhyuk Lee, Donghyeon Kim, **Minbyul Jeong**, Jaewoo Kang, "Pre-trained Language Model for Biomedical Question Answering". In: Proceedings of ECML PKDD. 2019 [[Github](#)] [[Paper](#)]

[C1] Donghyeon Kim, Jinhyuk Lee, Chan Ho So, Hwisang Jeon, **Minbyul Jeong**, Yonghwa Choi, Wonjin Yoon, Mujeen Sung, Jaewoo Kang, "*BERN: A neural named entity recognition and multi-type normalization tool for biomedical text mining*". In: Proceedings of IEEE Access. 2019 [[Github](#)] [[Paper](#)]

Preprints

[P4] Yein Park, Chanwoong Yoon, Jungwoo Park, Donghyeon Lee, **Minbyul Jeong**[†] and Jaewoo Kang[†], "ChroKnowledge: Unveiling Chronological Knowledge of Language Models in Multiple Domains". arXiv preprint. 2024.[[Github](#)] [[Paper](#)] [[Homepage](#)]

[P3] Minbyul Jeong, Hyeon Hwang, Chanwoong Yoon, Taewhoo Lee, and Jaewoo Kang, "OLAPH: Improving Factuality in Biomedical Long-form Question Answering". arXiv preprint. 2024.[[Github](#)] [[Paper](#)] [[Youtube](#)]

[P2] Minbyul Jeong, Jaewoo Kang, "Regularization for Long Named Entity Recognition". arXiv preprint. 2021.[[Github](#)] [[Paper](#)]

[P1] Raehyun Kim, Chan Ho So, **Minbyul Jeong**, Sanghoon Lee, Jinkyu Kim, Jaewoo Kang, "HATS: A Heirarchical Graph Attention Network for Stock Movement Prediction". arXiv preprint. 2019.[[Github](#)] [[Paper](#)]

Reviewer

Conferences:

- Conference on Neural Information Processing Systems (2024)
- International Conference on Learning Representations (2024)
- Empirical Methods in Natural Language Processing (2024)
- North American Chapter of the Association for Computational Linguistics (2024)

Journals:

- Experimental & Theoretical Artificial Intelligence (2024)
- Neural Networks (2023)
- Knowledge-Based Systems (2023)
- Applied Intelligence (2022, 2023)
- Data Technologies and Applications (2022)