

BOSUNG KIM

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EDUCATION

University of California, San Diego

PhD in Computer Science and Engineering

- Advisor: [Prithviraj \(Raj\) Ammanabrolu](#)

Present
San Diego, CA, USA

Sogang University

M.S. in Computer Science and Engineering

- Natural Language Processing Lab, advised by Jungyun Seo

Feb. 2020
Seoul, South Korea

Sogang University

B.S. in Computer Science and Engineering

- Magna Cum Laude

Feb. 2016
Seoul, South Korea

PUBLICATIONS -CONFERENCE

SYMPTOMIFY: Transforming Symptom Annotations with Language Model Knowledge Harvesting.

Bosung Kim, Ndapa Nakashole.

Findings of the Association for Computational Linguistics: EMNLP, 2023. [\[paper\]](#)

Zero-shot Triplet Extraction by Template Infilling.

Bosung Kim, Hayate Iso, Nikita Bhutani, Estevam Hruschka, Ndapa Nakashole, Tom Mitchell.

Proceedings of the 13th International Joint Conference on Natural Language Processing and the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (IJCNLP-AACL), 2023. [\[paper\]](#)

Chride at SemEval-2023 Task 10: Fine-tuned DeBERTaV3 on Detection of Online Sexism with Hierarchical Loss.

Letian Peng, Bosung Kim.

Proceedings of the 17th International Workshop on Semantic Evaluation (SemEval), 2023. [\[paper\]](#)

Data Augmentation for Rare Symptoms in Vaccine Side-Effect Detection.

Bosung Kim, Ndapa Nakashole.

Proceedings of the 21st Workshop on Biomedical Language Processing (BioNLP), 2022. [\[paper\]](#)

Query Reformulation for Descriptive Queries of Jargon Words Using a Knowledge Graph based on a Dictionary.

Bosung Kim, Hyewon Choi, Haeun Yu, Youngjoong Ko.

Proceedings of the 30th ACM International Conference on Information & Knowledge Management (CIKM), 2021. [\[paper\]](#)

Commonsense Knowledge Augmentation for Low-Resource Languages via Adversarial Learning.

Bosung Kim*, Juae Kim*, Youngjoong Ko, Jungyun Seo.

Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2021. (*Equal contribution) [\[paper\]](#)

Multi-task learning for Knowledge Graph Completion using Pre-trained Language Models.

Bosung Kim, Taesuk Hong, Youngjoong Ko, Jungyun Seo.

Proceedings of the 28th International Conference on Computational Linguistics (COLING), 2020. [\[paper\]](#)

PUBLICATIONS -JOURNAL	Novel Regularization Method for the Class Imbalance Problem Bosung Kim, Youngjoong Ko, Jungyun Seo. <i>Expert Systems With Applications</i> , Vol 188, February 2022.	
WORK EXPERIENCE	Applied Scientist Intern, AWS AI Lab <i>Amazon Q</i> <ul style="list-style-type: none"> • Project: Multi-domain Query-driven Knowledge Graph Construction. • Mentors: Minh Nguyen and Bonan Min 	June. 2024 - Sep. 2024 New York, NY, USA
	Research Intern, Ancestry.com <i>CV/NLP team</i> <ul style="list-style-type: none"> • Project: Large-scale Relation Extraction using LLMs. • Mentors: Maria Fabiano and Jack Rease 	June. 2023 - Sep. 2023 Lehi, Utah, USA
	Research Intern, Megagon Labs <i>Natural Language Processing team</i> <ul style="list-style-type: none"> • Project: Zero-shot Relation Extraction using LLMs. • Mentors: Hayate Iso, Nikita Bhutani, Estevam Hruschka, and Tom Mitchell 	June. 2022 - Sep. 2022 Mountain View, CA, USA
	Researcher, Sungkyunkwan University <i>Natural Language Processing Lab</i> <ul style="list-style-type: none"> • Research area: knowledge graph representation, transfer learning for low-resource languages. • Advisor: Youngjoong Ko 	Mar. 2020 - Aug. 2021 Suwon, South Korea
	Software Engineer, Coupang <i>Query Understanding team</i> <ul style="list-style-type: none"> • Main task: Query processing and query recommendation. 	Dec. 2015 - Dec. 2017 Seoul, South Korea / Mountain View, CA, USA
	Engineering Intern, Samsung Electronics <i>JavaScript Engine Research team</i> <ul style="list-style-type: none"> • Performed empirical research on JavaScript engine V8 for mobile devices. 	June. 2014 - Aug. 2014 Suwon, South Korea
TECHNICAL SKILLS	Languages: Python, C/C++, Java, Scala Frameworks: Pytorch, huggingface/transformers, Spark, Hive, MongoDB, Solr	
TEACHING ASSISTANT	Probabilistic Reasoning and Learning, <i>UC San Diego</i> Statistical Natural Language Processing, <i>UC San Diego</i> Advanced Natural Language Processing, <i>Samsung Electronics</i> Advanced Natural Language Processing, <i>Samsung Electronics</i> Introduction to Engineering Design, <i>Sogang University</i> Automata Theory, <i>Sogang University</i> Computer Science and Engineering Laboratory, <i>Sogang University</i>	2023 Fall 2023 Spring June, Aug 2020 June, Aug 2019 2019 Spring 2018 Fall 2018 Spring