BOSUNG KIM

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EDUCATION

University of California, San Diego   Present
PhD in Computer Science and Engineering   San Diego, CA, USA
- Advisor: Ndapa Nakashole

Sogang University   Feb. 2020
M.S. in Computer Science and Engineering   Seoul, South Korea
- Natural Language Processing Lab, advised by Jungyun Seo

Sogang University   Feb. 2016
B.S. in Computer Science and Engineering   Seoul, South Korea
- Magna Cum Laude

PUBLICATIONS
-CONFERENCE

SYMPTOMIFY: Transforming Symptom Annotations with Language Model Knowledge Harvesting.
Bosung Kim, Ndapa Nakashole.
Findings of the Association for Computational Linguistics: EMNLP 2023, 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), 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 the 17th International Workshop on Semantic Evaluation (SemEval 2023), 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), 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), 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), 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), 2020.
[paper]

PUBLICATIONS -JOURNAL

Novel Regularization Method for the Class Imbalance Problem
Bosung Kim, Youngjoong Ko, Jungyun Seo.
Expert Systems With Applications, Vol 188, February 2022.

WORK EXPERIENCE

Research Intern, Ancestry.com   June. 2023 - Sep. 2023
CV/NLP team   Lehi, Utah, USA
- Project: Large-scale Relation Extraction using LLMs.
- Mentors: Maria Fabiano and Jack Rease

Research Intern, Megagon Labs   June. 2022 - Sep. 2022
Natural Language Processing team   Mountain View, CA, USA
- Project: Zero-shot Relation Extraction using LLMs.
- Mentors: Hayate Iso, Nikita Bhutani, Estevam Hruschka, and Tom Mitchell

Researcher, Sungkyunkwan University   Mar. 2020 - Aug. 2021
Natural Language Processing Lab   Suwon, South Korea
- Research area: knowledge graph representation, transfer learning for low-resource languages.
- Advisor: Youngjoong Ko

Software Engineer, Coupang   Dec. 2015 - Dec. 2017
Query Understanding team   Seoul, South Korea / Mountain View, CA, USA
- Main task: Query processing and query recommendation.

Engineering Intern, Samsung Electronics   June. 2014 - Aug. 2014
JavaScript Engine Research team   Suwon, South Korea
- Performed empirical research on JavaScript engine V8 for mobile devices.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Scala
Frameworks: Pytorch, huggingface/transformers, Spark, Hive, MongoDB, Solr

TEACHING ASSISTANT

Probabilistic Reasoning and Learning, *UC San Diego*	2023 Fall
Statistical Natural Language Processing, *UC San Diego*	2023 Spring
Advanced Natural Language Processing, *Samsung Electronics*	June, Aug 2020
Advanced Natural Language Processing, *Samsung Electronics*	June, Aug 2019
Introduction to Engineering Design, *Sogang University*	2019 Spring
Automata Theory, *Sogang University*	2018 Fall
Computer Science and Engineering Laboratory, *Sogang University*	2018 Spring