

# BOSUNG KIM

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## EDUCATION

### University of California, San Diego

PhD in Computer Science and Engineering

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