

# DONGSUK OH

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## RESEARCH INTEREST

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My primary research interests lie in Trustworthy AI and Neural-Symbolic AI based on Natural Language Processing (NLP) and Semantics.

## EDUCATION

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**Korea University** *Seoul, South Korea*  
*Doctoral Degree in the Department of Computer Science and Engineering* *Feb 2020 - Feb 2023*  
· Advisor: Professor Heuseok Lim, Natural Language Processing Lab.

**Sogang University** *Seoul, South Korea*  
*Master of Science in Computer Science and Engineering* *Feb 2014 - Feb 2016*  
· Advisor: Professor Jungyun Seo, Natural Language Processing Lab.

## WORK EXPERIENCE

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**Kyungpook National University** *Daegu, South Korea*  
*Assistant Professor, Department of English Language and Literature* *Sep 2023 - Current*  
**KT, Large AI Alignment Project** *Seoul, South Korea*  
*AI Researcher* *May 2023 - Sep 2023*  
**Human-Inspired AI Research, Korea Univ** *Seoul, South Korea*  
*AI Researcher* *Feb 2019 - Feb 2020*  
**NHN entertainment, Search Group** *Seoul, South Korea*  
*NLP Engineer(Technical Research Personnel)* *Aug 2018 - Feb 2019*  
**Diquest, NLP Group** *Seoul, South Korea*  
*NLP Engineer(Technical Research Personnel)* *Feb 2016 - Aug 2018*

## PUBLICATIONS

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### 2022

Dongsuk Oh\*, Yejin kim\*, Hodong Lee, H.Howie Huang and Heuseok Lim. Don't Judge a Language Model by Its Last Layer: Contrastive Learning with Layer-Wise Attention Pooling. The International Conference on Computational Linguistics (COLING), 2022 (\* equally contributed)

Dongsuk Oh\*, Jungwoo Lim\* and Heuseok Lim. Neuro-Symbolic Word Embedding Using Textual and Knowledge Graph Information. Applied Sciences (IF 2.838), 2022 (\* equally contributed)

Dongsuk Oh\*, Jungwoo Lim\*, Kinam Park and Heuseok Lim. Semantic Representation Using Sub-Symbolic Knowledge in Commonsense Reasoning. Applied Sciences (IF 2.838), 2022 (\* equally contributed)

Seungwon Jeong\*, Dongsuk Oh\*, Kinam Park and Heuseok Lim. Considering Commonsense in Solving QA: Reading Comprehension with Semantic Search and Continual Learning. Applied Sciences (IF 2.838), 2022 (\* equally contributed)

Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, Chanjun Park, Kisu Yang, Hyeonseok Moon, Kinam Park and Heuseok Lim. PU-GEN: Enhancing generative commonsense reasoning for language models with human-centered knowledge. Knowledge-Based Systems (IF 8.139), 2022

Yoonna Jang\*, Jungwoo Lim\*, Yuna Hur\*, Dongsuk Oh, Suhyune Son, Yeonsoo Lee, Donghoon Shin, Seungryong Kim and Heuseok Lim. Call for Customized Conversation: Customized Conversation Grounding Persona and Knowledge. Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2022 (\* equally contributed)

## 2021

Sunjae Kwon\*, Dongsuk Oh\*, Youngjoong Ko. Word sense disambiguation based on context selection using knowledge-based word similarity. Information Processing & Management (IF 7.466), 2021 (\* equally contributed)

Taesun Whang\*, Dongyub Lee\*, Dongsuk Oh, Chanhee Lee, Kijong Han, Dong-hun Lee, Saebyeok Lee. Do Response Selection Models Really Know What's Next? Utterance Manipulation Strategies for Multi-turn Response Selection. Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2021 (\* equally contributed)

## 2020

Jungwoo Lim\*, Dongsuk Oh\*, Yoonna Jang, Kisu Yang and Heuseok Lim. I Know What You Asked: Graph Path Learning using AMR for Commonsense Reasoning. The International Conference on Computational Linguistics (COLING), 2020 (\* equally contributed)

Taesun Whang, Dongyub Lee, Chanhee Lee, Kisu Yang, Dongsuk Oh and HeuiSeok Lim. An Effective Domain Adaptive Post-Training Method for BERT in Response Selection. Proceedings of Interspeech, 2020

## 2019

Heejung Jwa, Dongsuk Oh, Kinam Park, Jang Mook Kang and Heuseok Lim. exbake: Automatic fake news detection model based on bidirectional encoder representations from transformers (bert). Applied Sciences (IF 2.474), 2019

## 2018

Dongsuk Oh\*, Sunjae Kwon\*, Kyungsun Kim and Youngjoong Ko. Word sense disambiguation based on word similarity calculation using word vector representation from a knowledge-based graph. The International Conference on Computational Linguistics (COLING), 2018 (\* equally contributed)