

Donghyun Kim

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Education

Yonsei University

PH.D. STUDENT IN COMPUTER SCIENCE

- Research Interests: Knowledge Graphs, Natural Language Processing, Conversational AI
- Advisor: Prof. Kyong-Ho Lee

Seoul, South Korea

Sep. 2019 - Present

Pusan National University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Busan, South Korea

Mar. 2013 - Feb. 2017

Experience

Republic of Korea Army

OFFICER (LIEUTENANT)

- Served as a signal officer and platoon leader
- Maintained the army tactical voice, data, and information systems

South Korea

Mar. 2017 - Jun. 2019

Publications

2023

- Seungmin Seo, Byungkook Oh, Jeongbeom Jeoung, **Donghyun Kim**, Kyong-Ho Lee, Dong-Hoon Shin, and Yeonsoo Lee, "Active Learning for Cross-sentence N-ary Relation Extraction," *Information Sciences*, Vol. 645, Oct. 2023.
- **Donghyun Kim**, Youbin Ahn, Wongyu Kim, Chanhee Lee, Kyungchan Lee, Kyong-Ho Lee, Jeonguk Kim, Donghoon Shin and Yeonsoo Lee, "Persona Expansion with Commonsense Knowledge for Diverse and Consistent Response Generation," *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023)*, pp. 1139–1149, 2023.
- **Donghyun Kim**, Youbin Ahn, Chanhee Lee, Wongyu Kim, Kyong-Ho Lee, Donghoon Shin and Yeonsoo Lee, "Concept-based Persona Expansion for Improving Diversity of Persona-Grounded Dialogue," *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023)*, pp. 3471–3481, 2023.

2022

- Wongyu Kim, Youbin Ahn, **Donghyun Kim** and Kyong-Ho Lee, "Emp-RFT: Empathetic Response Generation via Recognizing Feature Transitions between Utterances," *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2022)*, pp. 4118-4128, 2022.
- Seungmin Seo, **Donghyun Kim**, Youbin Ahn and Kyong-Ho Lee, "Active Learning on Pre-trained Language Model with Task-Independent Triplet Loss," *Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI 2022)*, pp. 11276-11284, 2022.

Projects

Automated Construction and Validation of CMMS-K

PROJECT LEADER

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KRIT

Nov. 2022 - Present

Refining User Preferences by Leveraging Knowledge Graphs for Conversational Recommender System

PROJECT MEMBER

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National Research Foundation of Korea

Mar. 2022 - Present

Dynamic Context Reasoning for Advanced Intelligent Service Robot

PROJECT LEADER

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Hyundai Motor Company

Sep. 2022 - Aug. 2023

Knowledge Graph based Intent-Community Detection

PROJECT MEMBER

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Samsung Research

Dec. 2021 - Nov. 2022

Improving Dialogue Quality via Consistent Persona Expansion and Training Optimization

PROJECT LEADER

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NCSOFT

Jun. 2021 - Dec. 2021

Improving Dialogue Quality via Persona Expansion and Combination using Knowledge Graph

PROJECT LEADER

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NCSOFT

Nov. 2020 - May. 2021

Deep Representation Learning for Improving the Information Quality of Dynamically Evolving Knowledge Graphs

PROJECT MEMBER

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*National Research
Foundation of Korea*

Sep. 2019 - Feb. 2022

Active Learning based N-ary Relation Extraction and Strucuralization

PROJECT MEMBER

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NCSOFT

Sep. 2019 - Apr. 2020

Honors & Awards

Brain Korea 21+ Scholarship, Yonsei University

2020-2, 2021-1

Academic Scholarship, Pusan National University

2015-2, 2016-2

Excellence Award, Military Start-up Challenge

2017

Excellence Award, Undergraduate Software Capstone Design

2016