Jungwoo Lim | Curriculum Vitae

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 https://dlawjddn803.github.io/

I am a Ph.D student in Natural Language Processing Artificial Intelligence Lab advised by Heuiseok Lim from Korea University. During the course of my academic career, I managed to write top-tier conference papers regarding natural language processing (NLP) and achieved high ranks in Dialogue System Technology Challenge. In my academic life, I have been consistently praised as efficient by my professors and peers. Whether working on academic, extracurricular, or professional projects, I apply proven teamwork, problem-solving and analytical skills.

Research Interest

Question and Answering / Commonsense Reasoning / Knowledge Graph / Numerical Reasoning / Dialog System / Dialog State Tracking / Persona and Knowledge grounded Chat / Relation Extraction

Skills

- **Programming:** *Python, SQL, R, JAVA*
- **Deep Learning**: *Pytorch, Tensorflow, Keras*
- **Machine Learning**: *Scikit-learn, Pandas*
- **Language**: *Korean, English, Chinese*

Education

Korea University	**Seoul, Korea**
Computer Science and Engineering (Ph.D),	*2019–Current*
Sunkyunkwan University	**Seoul, Korea**
Library and Information Science (Bachelor's Degree),	*2015–2019*

Research Projects

Dialogue System for Intention Classification and Slot Filling	**Seoul, Korea**
Research Project with Hyundai Motor Compancy,	*2021–Current*

- Developed a model that captures the intention of the utterance and fills the slot value into the corresponding slots with the data from Hyundai Motor Company
- Used multi-tasking training on language model to enhance the performance of intent classification and to predict the slot value simultaneously

Customized Dialogue System grounding Persona and Knowledge	**Seoul, Korea**
Research Project with NCSoft Company,	*2020–2021*

- Created a new dialogue dataset that grounds users' persona and knowledge using Amazon Mechanical Turk
- Built an enhanced dialogue system that informs the user about the Wikipedia knowledge of certain landmarks based on the users' persona with the created dataset

○ **Commonsense Question and Answering using AMR Graph**   **Seoul, Korea**
Research Project with NLP & AI lab,   *2019–2020*

  – Integrated AMR (Abstract Meaning Representation) graph and Commonsense Graph for symbolic reasoning on CSQA (Commonsense Question and Answering) task.
  – Enabled interpretation on commonsense reasoning process of our developed model.

Awards

○ **The Tenth Dialog System Technology Challenge (DSTC10)**   **Seoul, Korea**
3rd place in Subtask 1, Track 2,   *October 2021*

  – Earn 3rd place in Subtask 1, Track 2 Knowledge-grounded Task-oriented Dialogue Modeling on Spoken Conversations

○ **Best Paper Award in HCLT 2020**   **Seoul, Korea**
Best Paper Award in Annual Conference on Human and Language Technology,   *October 2020*

○ **The 8th Financial Style Visualization Competition using KCB Data**   **Seoul, Korea**
5th place in the competition,   *August 2019*

○ **The 5th L.POINT Big Data Competition**   **Seoul, Korea**
Excellence award,   *February 2019*

○ **The 4th Meteorological Agency Big Data Contest**   **Seoul, Korea**
Encouragement award,   *August 2018*

Teaching Experience

○ **Introduction to Natural Language Processing in Big Data**   **Seoul, Korea**
Worked as a teaching assistant in the course,   *September-December 2021*

○ **Mathematics for Computer Science I**   **Seoul, Korea**
Worked as a teaching assistant in the course,   *March-June 2020*

Publication

International Conference

Call for Customized Conversation: Customized Conversation Grounding Persona and Knowledge
AAAI 2022 - Thirty-Sixth AAAI Conference on Artificial Intelligence
Yoonna Jang, Jungwoo Lim, Yuna Hur, Dongsuk Oh, Suhyune Son, Yeonsoo Lee, Donghoon Shin, Seungryong Kim, Heuiseok Lim

Towards Filling the Gap between Written and Spoken Dialogues for Multi-Domain Dialogue State Tracking
AAAI 2022, DSTC10 workshop - Thirty-Sixth AAAI Conference on Artificial Intelligence
Yoonna Jang, Jungwoo Lim, Yuna Hur, Dongsuk Oh, Suhyune Son, Yeonsoo Lee, Donghoon Shin, Seungryong Kim, Heuiseok Lim

Capturing Speaker Incorrectness: Speaker-Focused Post-Correction for Abstractive Dialogue Summarization
EMNLP 2021, NewSum workshop - Proceedings of the Third Workshop on New Frontiers in Summarization, 65-73
Dongyub Lee, Jungwoo Lim, Taesun Whang, Chanhee Lee, Seungwoo Cho, Mingun Park, Heui-Seok Lim

I Know What You Asked: Graph Path Learning using AMR for Commonsense Reasoning
COLING 2020 - Proceedings of the 28th International Conference on Computational Linguistics, 2459–2471
Jungwoo Lim, Dongsuk Oh, Yoonna Jang, Kisu Yang, Heuiseok Lim

Domestic Conference

Analysis on Question Understanding of Language Models using Clever Hans Tests
HCLT 2021 - Annual Conference on Human and Language Technology, 36-40
Jungwoo Lim, Dongsuk Oh, Sungjin Park, Taesun Whang, Midan Shim, Suhyune Son, Yujin Kim, Heuiseok Lim

A Comparative Study on Korean Relation Extraction with entity position information
HCLT 2021 - Annual Conference on Human and Language Technology, 247-250
Suhyune Son, Yuna Hur, Jungwoo Lim, Midan Shim, Chanjun Park, Heuiseok Lim

Attention Patterns and Semantics of Korean Language Models
HCLT 2021 - Annual Conference on Human and Language Technology, 605-608
Kisu Yang, Yoonna Jang, Jungwoo Lim, Chanjun Park, Hwanseok Jang, Heuiseok Lim

Persona-based Korean Conversational Model
HCLT 2021 - Annual Conference on Human and Language Technology, 453-456
Yoonna Jang, Jungwoo Lim, Yuna Hur, Kisu Yang, Chanjun Park, Jaehyung Seo, Seungjun Lee, Heuiseok Lim

Personalized Chit-chat Based on Language Models
HCLT 2020 - Annual Conference on Human and Language Technology, 491-494
Yoonna Jang, Dongsuk Oh, Jungwoo Lim, Heuiseok Lim

Commonsense Graph Path Learning Model for OpenBook Question and Answering
HCLT 2020 - Annual Conference on Human and Language Technology, 71-75
Jungwoo Lim, Donsuk Oh, Yoonna Jang, Kisu Yang, Heuiseok Lim

Hypernews Detection using Sentence BERT Embedding
HCLT 2019 - Annual Conference on Human and Language Technology, 388-391
Jungwoo Lim, Taesun Whang, Dongsuk Oh, Kisu Yang, Heuiseok Lim

International Journal

K-EPIC: Entity-Perceived Context Representation in Korean Relation Extraction
Applied Sciences 11 (23), 11472
Yuna Hur, Suhyune Son, Midan Shim, Jungwoo Lim, Heuiseok Lim

Domestic Journal

An Automated Industry and Occupation Coding System using Deep Learning
Journal of the Korea Convergence Society 12 (4), 23-30
Jungwoo Lim, Hyeonseok Moon, Chanhee Lee, Chankyun Woo, Heuiseok Lim