

SANG-WOO LEE

PERSONAL INFORMATION

- Technical Leader at Conversation Team, NAVER CLOVA
- Leader at Language Research Team, NAVER AI Lab
- Adjunct Professor, KAIST AI

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- Google Scholar: <https://scholar.google.co.kr/citations?user=TMTTMuQAAAAJ>

RESEARCH INTERESTS

Task-Oriented Dialog System, Language Model, Natural Language Processing

EDUCATION

- Ph.D. in Computer Science and Engineering** Mar 2012 - Aug 2018
Seoul National University, Seoul, Republic of Korea
- B.S. in Computer Science and Engineering** Mar 2008 - Feb 2012
Seoul National University, Seoul, Republic of Korea

WORK EXPERIENCE

- NAVER Corp.** July 2018 - Present
- Team Leader at Language Research Team, NAVER AI Lab April 2021 - Present
 - Technical Leader at Conversation Team, NAVER CLOVA May 2020 - Present
 - Research Scientist at NAVER AI Lab July 2018 - March 2021
 - Project Initiator at DUET Team, NAVER CLOVA July 2018 - April 2020
- KAIST AI** Oct 2021 - Present
- Adjunct Professor
- BoxLadder** Feb 2022 - Present
- Advisor

CONFERENCE

- [1] Kyungjae Lee, Wookje Han, Seung-Won Hwang, Hwaran Lee, Joonsuk Park, **Sang-Woo Lee**. Continual Plug-and-Adapt for CuQA. In *Findings of ACL* (to appear). 2022.
- [2] Yeon Seonwoo, Juhee Son, Jiho Jin, **Sang-Woo Lee**, Ji-Hoon Kim, Jung-Woo Ha, Alice Oh. Two-Step Question Retrieval for Open-Domain QA. In *Findings of ACL* (to appear). 2022.
- [3] Boseop Kim*, HyungSeok Kim*, **Sang-Woo Lee***, Gichang Lee, Donghyun Kwak, Dong Hyeon Jeon, Sunghyun Park, Sungju Kim, Seonhoon Kim, Dongpil Seo, Heungsub Lee, Minyoung Jeong, Sungjae Lee, Minsub Kim, Suk Hyun Ko, Seokhun Kim, Taeyong Park, Jinuk Kim, Soyong Kang, Na-Hyeon Ryu, Kang Min Yoo, Minsuk Chang, Soobin Suh, Sookyo In, Jinseong Park, Kyungduk Kim, Hiun Kim, Jisu Jeong, Yong Goo Yeo, Donghoon Ham, Dongju Park, Min Young Lee, Jaewook

- Kang, Inho Kang, Jung-Woo Ha, Woomyoung Park, Nako Sung. **What Changes Can Large-scale Language Models Bring? Intensive Study on HyperCLOVA: Billions-scale Korean Generative Pretrained Transformers.** In *EMNLP*. 2021.
- [4] Kang Min Yoo, Dongju Park, Jaewook Kang, **Sang-Woo Lee**, Woomyeong Park. **GPT3Mix: Leveraging Large-scale Language Models for Text Augmentation.** In *Findings of EMNLP*. 2021.
- [5] Sungdong Kim, Minsuk Chang, **Sang-Woo Lee**. **NeuralWOZ: Learning to Collect Task-Oriented Dialogue via Model-based Simulation.** In *ACL*. 2021.
- [6] Yeon Seonwoo, **Sang-Woo Lee**, Ji-Hoon Kim, Jung-Woo Ha, Alice Oh. **Weakly Supervised Pre-Training for Multi-hop Retriever.** In *Findings of ACL*. 2021.
- [7] Minjeong Kim, Gyuwan Kim, **Sang-Woo Lee**, Jung-Woo Ha. **ST-BERT: Cross-modal Language Model Pre-training For End-to-end Spoken Language Understanding.** In *ICASP*. 2021.
- [8] Jung-Woo Ha*, Kihyun Nam*, Jin Gu Kang, **Sang-Woo Lee**, Sohee Yang, Hyunhoon Jung, Eunmi Kim, Hyeji Kim, Soojin Kim, Hyun Ah Kim, Kyoungtae Doh, Chan Kyu Lee, Sunghun Kim. **ClovaCall: Korean Goal-oriented Dialog Speech Corpus for Automatic Speech Recognition of Contact Centers.** In *Interspeech*. 2020.
- [9] Sungdong Kim, Sohee Yang, Gyuwan Kim, **Sang-Woo Lee**. **Efficient Dialogue State Tracking by Selectively Overwriting Memory.** In *ACL*. 2020.
- [10] **Sang-Woo Lee**, Tong Gao, Sohee Yang, Jaejun Yoo, Jung-Woo Ha. **Large-Scale Answerer in Questioner’s Mind for Visual Dialog Question Generation.** In *ICLR*. 2019.
- [11] **Sang-Woo Lee**, Yujung Heo, Byoung-Tak Zhang. **Answerer in Questioner’s Mind: Information Theoretic Approach to Goal-oriented Visual Dialog.** In *NeurIPS*. 2018. (Spotlight)
- [12] **Sang-Woo Lee**, Jin-Hwa Kim, Jaehyun Jun, Jung-Woo Ha, Byoung-Tak Zhang. **Overcoming Catastrophic Forgetting by Incremental Moment Matching.** In *NIPS*. 2017. (Spotlight)
- [13] Jin-Hwa Kim, **Sang-Woo Lee**, Dong-Hyun Kwak, Min-Oh Heo, Jeonghee Kim, Jung-Woo Ha, Byoung-Tak Zhang. **Multimodal Residual Learning for Visual QA.** In *NIPS*. 2016.
- [14] **Sang-Woo Lee**, Chung-Yeon Lee, Dong-Hyun Kwak, Jiwon Kim, Jeonghee Kim, and Byoung-Tak Zhang. **Dual Memory Architectures for Lifelong Learning of Everyday Human Behaviors.** In *IJCAI*. 2016.

JOURNAL

- [1] Christina Baek, **Sang-Woo Lee**, Beom-Jin Lee, Dong-Hyun Kwak, Byoung-Tak Zhang. **Enzymatic Weight Update Algorithm for DNA-based Molecular Learning.** *Molecules*, 24(7):1409. 2019.
- [2] **Sang-Woo Lee**, Chung-Yeon Lee, Dong-Hyun Kwak, Jung-Woo Ha, Jeonghee Kim, and Byoung-Tak Zhang. **Dual-memory Neural Networks for Modeling Cognitive Activities of Humans via Wearable Sensors.** *Neural Networks*, 92:17-28. 2017.

PROJECTS

- HyperCLOVA** Jan 2021 - Present
- NAVER AI NOW [[Videos](#)]
- CCAI** July 2018 - Present
- AiCall (DUET) [[Demo](#)] [[JP Video](#)] [[KR Video](#)]

SCHOLARSHIPS

Presidential Science Scholarship, Korea Student Aid Foundation 2008 - 2012

TEACHING EXPERIENCE

Instructor

Korea Advanced Institute of Science and Technology (KAIST)

- Special Topics in Machine Learning: Deep Learning and Real-world Applications Mar - June 2022

Teaching Assistant

Seoul National University

- Introduction to Deep Learning Mar 2018 - June 2018
- Machine Learning Sep 2016 - Dec 2016
- Machine Learning Sep 2013 - Dec 2013
- Artificial Intelligence Mar 2013 - June 2013

Teaching Assistant

Samsung Advanced Technology Training Institute

- Machine Learning July 2014
- Machine Learning Practice Mar 2014

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