

Joongbo Shin

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Education	Seoul National University , Seoul, Korea <ul style="list-style-type: none">• <i>Ph.D. Candidate in Electrical and Computer Engineering</i> expected Feb. 2021· Combined M.S/Ph.D Course· Adviser: Prof. Kyomin Jung
	Yonsei University , Seoul, Korea <ul style="list-style-type: none">• <i>B.A. in Electrical and Electronic Engineering</i> Feb. 2013
Research Interests	Natural Language Processing <ul style="list-style-type: none">· Language Modeling (Self-supervised Learning)· Text Understanding/Generation/Evaluation
	Deep Learning for AI <ul style="list-style-type: none">· Transfer/Few-shot/Unsupervised Learning· Speech Recognition/Synthesis
Academic Activities	Academic Services <ul style="list-style-type: none">· Technical Program committee (Reviewer) of AAAI Conference on Artificial Intelligence (AAAI) 2021
	Teaching Assistant <ul style="list-style-type: none">· Advanced Programming Methodology, Seoul National University Fall, 2018· Advanced Programming Methodology, Seoul National University Fall, 2015· Programming Methodology, Seoul National University Spring, 2014
	Projects <ul style="list-style-type: none">· Developing Fast and Efficient Deep Learning based Language Representations for Context Awareness, Samsung Electronics Co. Sep. 2020 – Sep. 2025· Developing Machine Intelligence based Conversation System that Detects Situations and Responds to Human Emotions, KEIT Nov. 2016 – Dec. 2021· Developing Character Recognition Engine in String Images, Koh Young Tech. Mar. 2017 – Aug. 2017· Developing Deep Learning-based Character Recognition System for PCB Inspection Systems, Koh Young Tech. Nov. 2015 – Jun. 2016· Developing PRIVACY-PRESERVING LEARNING Technology for Personalization Services, Samsung Electronics Co. May. 2015 – Dec. 2015
	Challenge <ul style="list-style-type: none">· 5th place / 71 teams, National AI R&D Fake News Challenge, Ministry of Science and ICT, Korea Aug. 2017 – Dec. 2017

Publications **Conferences**

- [7] Y Lee, **J Shin**, K Jung, “Bidirectional Variational Inference for Non-Autoregressive Text-to-Speech” to appear in *International Conference on Learning Representations (ICLR)*, 2021.
- [6] **J Shin**, Y Lee, S Yoon, K Jung, “Fast and Accurate Deep Bidirectional Language Representations for Unsupervised Learning” in *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2020.
- [5] **J Shin**, Y Lee, K Jung, “Effective Sentence Scoring Method Using BERT for Speech Recognition” in *Asian Conference on Machine Learning (ACML)*, 2019.
- [4] Y Kim, H Lee, **J Shin**, K Jung, “Improving Neural Question Generation using Answer Separation” in *Proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- [3] S Yoon, K Park, **J Shin**, H Lim, S Won, M Cha, K Jung, “Detecting Incongruity Between News Headline and Body Text via a Deep Hierarchical Encoder” in *Proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- [2] S Yoon, **J Shin**, K Jung, “Learning to Rank Question-Answer Pairs using Hierarchical Recurrent Encoder with Latent Topic Clustering” in *Proc. of Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2018.
- [1] **J Shin**, Y Kim, S Yoon, K Jung, “Contextual-CNN: A Novel Architecture Capturing Unified Meaning for Sentence Classification” in *Proc of the IEEE International Conference on Big Data and Smart Computing (BigComp)*, 2018.

Journals

- [1] S Lim, **J Shin**, N Kwak, K Jung, “Phase Transitions for Information Diffusion in Random Clustered Networks” in *The European Physical Journal B*, Sep. 2016, (**impact factor**: 1.440).

Patents

Korean Patents

- [2] K Jung, S Yoon, **J Shin**, H Kwak, S Byun, “Artificial intelligence based dialog system and response control method thereof,” *issued patent*, KR 10-2059015, Dec. 18, 2019
- [1] K Jung, **J Shin**, S Yoon, “Apparatus and method for evaluating sentence by using bidirectional language model,” *pending patent*, KR1020190165712, Dec. 12, 2019