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RESEARCH INTERESTS	Dialogue systems, Speech recognition, Speech enhancement Neural network, Generative model	
EDUCATION	Korea Advanced Institute of Science and Technology Ph.D, Electrical Engineering, Advisor: Prof. Soo-Young Lee GPA: 3.93/4.3	Mar. 2013 – Oct. 2019 (expected)
	Korea Advanced Institute of Science and Technology B.S., Electrical Engineering Minor: Mathematical Science GPA: 3.97/4.3	Feb. 2008 – Aug. 2012
WORKING EXPERIENCE	Sony Computer Entertainment America, San Mateo, CA Research Intern (mentor: Ruxin Chen) Worked on multiple keyword spotting in speech	Oct. 2012 - Feb. 2013
RESEARCH PROJECTS	Speech recognition Semi-supervised continuous speech recognition (2016) End-to-end continuous speech recognition (2015) Acoustic model for Korean syllable (2013-2014) for spontaneous spoken dialog system for language learning Electronics and Telecommunications Research Institute (ETRI) Speech enhancement	Aug. 2013 – Feb. 2017 leader
	Location-robust blind source extraction for free-running embedded speech recognition technology for natural language dialogue with robots Korea Evaluation Institute of Industrial Technology (KEIT),	Sep - Nov. 2018 member
	Unpaired speech enhancement for spontaneous spoken dialog system for language learning Electronics and Telecommunications Research Institute (ETRI)	Apr - Oct. 2017 leader
	Natural language generation Article based question-answering and chitchat bot for emotional intelligence technology to infer human emotion and carry on dialogue accordingly Institute for Information & Communication Technology Promotion (IITP)	May – Nov. 2017 co-leader

PUBLICATION

International Journal

- Bo-Kyeong Kim, **Geonmin Kim**, Soo-Young Lee, "Style-Controlled Synthesis of Clothing Segments for Fashion Image Manipulation", *IEEE transactions on multimedia*, (2019)
- 2. **Geonmin Kim**, Hwaran Lee, Bo-Kyeong Kim, Sang-Hoon Oh, Soo-Young Lee, "Unpaired Speech Enhancement by Acoustic and Adversarial Supervision for Speech Recognition", *IEEE Signal Processing Letters*, (2019)
- 3. Ho-Gyeong Kim, Hwaran Lee, **Geonmin Kim**, Sang-Hoon Oh, Soo-Young Lee, "Rescoring of N-best Hypotheses using Top-down Selective Attention for Automatic Speech Recognition", *IEEE Signal Processing Letters*, (2018)
- 4. Hwaran Lee, **Geonmin Kim**, Ho-Gyeong Kim, Sang-Hoon Oh, Soo-Young Lee, "Deep CNNs Along the Time Axis With Intermap Poling for Robustness to Spectral Variations", *IEEE Signal Processing Letters*, (2016)

International Conference

- 1. **Geonmin Kim**, Hwaran Lee, Bo-Kyeong Kim, Soo-Young Lee, "Compositional Sentence Representation from Character within Large Context Text", *International Conference on Neural Information Processing*, (2017)
- Bo-Kyeong Kim, Suh-Yeon Dong, Jihyeon Roh, Geonmin Kim, Soo-Young Lee, "Fusing Aligned and Non-Aligned Face Information for Automatic Affect Recognition in the Wild: A Deep Learning Approach", IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRWS), (2016)
- Ho-Gyeong Kim, Jihyeon Roh, Hwaran Lee, Geonmin Kim, Soo-Young Lee, "Active Learning for Large-scale Object Classification: from Exploration to Exploitation", International Conference on Human-Agent Interaction, (2015)
- 4. **Geonmin Kim**, Chang-Hyun Kim, Soo-Young Lee, "Implement real-time polyphonic pitch detection and feedback system for the melodic instrument player",

International Conference on Neural Information Processing, 2012

AWARDS NIPS Conversational Intelligence Challenge 2017

Dec. 2017

Article-based chatbot which can carry on both question-

answering and chitchat, Awarded with 3rd place.

Qualcomm Innovation Award Mar. 2015

Active learning for large-scale object classification: from

exploration to exploitation

TEACHING Qualcomm innovation award chatbot hackerton committee EXPERIENCE

EE476 Audio-Visual Perception Models

EE538 Neural Networks

Summer 2018

Spring 2016-2017

Fall 2015-2017

SKILLS Languages: Python, Lua, MATLAB, C/C++, CUDA

Libraries: PyTorch, Torch7, KALDI

REFERENCES Soo-Young Lee

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