

# Gi-Cheon Kang

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CONTACT INFORMATION	205, Building 942	email: chonkang@snu.ac.kr
	Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea	website: gicheonkang.com
EDUCATION	Seoul National University, Seoul, Korea Ph.D. Student in Artificial Intelligence Advisor: Prof. Byoung-Tak Zhang	Sept. 2020 – Present
	Seoul National University, Seoul, Korea M.S. in Cognitive Science Advisor: Prof. Byoung-Tak Zhang Thesis: Deep Representation Learning for Visually-Grounded Dialogue	Mar. 2018 – Feb. 2020
	Ajou University, Suwon, Korea B.S. in Software and Computer Engineering	Mar. 2011 – Feb. 2018
INTERESTS	Machine Learning, Natural Language Processing, Computer Vision	
SELECTED PUBLICATIONS	[6] <b>C<sup>3</sup>: Contrastive Learning for Cross-domain Correspondence in Few-shot Image Generation</b> Hyukgi Lee, Gi-Cheon Kang, Chang-Hoon Jeong, Hanwool Sul, and Byoung-Tak Zhang <i>NeurIPS Workshop on Controllable Generative Modeling in Language and Vision</i> (NeurIPSW), 2021	
	[5] <b>Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer</b> Gi-Cheon Kang, Junseok Park, Hwaran Lee, Byoung-Tak Zhang*, and Jin-Hwa Kim* <i>Findings of Empirical Methods in Natural Language Processing</i> (Findings of EMNLP), 2021	
	[4] <b>Attend What You Need: Motion-Appearance Synergistic Networks for Video Question Answering</b> Ahjeong Seo, Gi-Cheon Kang, Joonhan Park, and Byoung-Tak Zhang <i>Annual Meeting of the Association for Computational Linguistics</i> (ACL), 2021	
	[3] <b>Label Propagation Adaptive Resonance Theory for Semi-Supervised Continuous Learning</b> Taehyeong Kim, Injune Hwang, Gi-Cheon Kang, Won-Seok Choi, Hyunseo Kim, Byoung-Tak Zhang <i>IEEE International Conference on Acoustics, Speech and Signal Processing</i> (ICASSP), 2020	
	[2] <b>Dual Attention Networks for Visual Reference Resolution in Visual Dialog</b> Gi-Cheon Kang, Jaeseo Lim, and Byoung-Tak Zhang <i>Empirical Methods in Natural Language Processing</i> (EMNLP), 2019	
	[1] <b>Contextualized Bilinear Attention Networks</b> Gi-Cheon Kang, Seonil Son, and Byoung-Tak Zhang <i>ECCV Workshop on VizWiz Grand Challenge</i> (ECCVW), 2018	
	* : equal contribution	
HONORS & AWARDS	Best Paper Award @ Korea Software Congress (KSC)	Dec. 2019
	Ranked 3rd Place, Visual Dialog Challenge @ CVPR 2019	June 2019
	Software-Centered University Hackathon, Prize from Microsoft Korea	Sept. 2017
	Yeoju Honor Scholarship	May 2016

<b>RESEARCH EXPERIENCE</b>	<b>AI Institute for SNU (AIIS)</b> , Seoul, Korea Research Assistant <i>Advisor: Prof. Byoung-Tak Zhang</i> I have studied “grounded language learning” which aims to connect language to non-linguistic experiences such as sensory perception and action.	Summer 2020 – Present
	<b>NAVER AI Lab</b> , Seoul, Korea Student Researcher <i>With Jin-Hwa Kim, Sungdong Kim, and Donghyun Kwak</i> Working on the multi-agent systems that perform the grounded collaborative dialogue.	Summer 2021 – Present
	<b>SK Telecom AI Center</b> , Seoul, Korea Research Intern <i>With Jin-Hwa Kim and Hwaran Lee</i> Developed Sparse Graph Learning (SGL) algorithm that discovers inherently sparse semantic structures of the human conversation. Published at Findings of EMNLP 2021.	Spring 2020
	<b>Seoul National University</b> , Seoul, Korea Research Assistant <i>Advisor: Prof. Byoung-Tak Zhang</i> Studied the machine learning algorithms for the visually-grounded dialogue systems. We proposed Dual Attention Networks for the question disambiguation and visual groundings. Published at EMNLP 2019.	Mar. 2018 – Feb. 2020
<b>RESEARCH PROJECTS</b>	<b>Video Turing Test (VTT)</b> : The Video Turing Test desires to test a machine’s ability of intelligent behavior in regards to observing and understanding video input and thereby its video intelligence. A machine capable of this task would prove human-like video understanding capabilities that could open the world of AI to a whole new possibilities in human-like long-term adaptive learning.	
	<b>Machine Learning for Home Appliances, LG Electronics</b> : Industry-Academia Cooperative Research with LG Electronics. Optimizing a motor control of an electric washing machine using ML technique.	
<b>INVITED TALKS</b>	<i>Dual Attention Networks for Visual Reference Resolution in Visual Dialog</i> ICCV 2019 - Video Turing Test Workshop ( <b>Spotlight</b> ) SK Telecom AI Center	Nov. 2019 Sept. 2019
	<i>Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer</i> Annual Conference on Human and Cognitive Language Technology	Oct. 2021
<b>EXTRA CURRICULAR ACTIVITIES</b>	BI Lab Conference Deadline Site Administrator	2018 – Present
	Military Service in Republic of Korea Army	2012 – 2014