

# Gi-Cheon Kang

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CONTACT INFORMATION	205, Building 942 Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea	<i>email:</i> chonkang@snu.ac.kr <i>website:</i> gicheonkang.com
EDUCATION	<b>Seoul National University</b> , Seoul, Korea Ph.D. Student in Artificial Intelligence Advisor: Prof. Byoung-Tak Zhang	Sept. 2020 – Present
	<b>Seoul National University</b> , Seoul, Korea M.S. in Cognitive Science Advisor: Prof. Byoung-Tak Zhang	Mar. 2018 – Feb. 2020
	<b>Ajou University</b> , Suwon, Korea B.S. in Software and Computer Engineering	Mar. 2011 – Feb. 2018
INTERESTS	Machine Learning, Natural Language Processing, Computer Vision	
PUBLICATIONS	<b>[5] 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 the Empirical Methods in Natural Language Processing</i> (Findings of EMNLP), 2021	
	<b>[4] 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	
	<b>[3] 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	
	<b>[2] 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	
	<b>[1] Contextualized Bilinear Attention Networks</b> Gi-Cheon Kang, Seonil Son, and Byoung-Tak Zhang <i>ECCV Workshop on VizWiz Challenge</i> , (ECCVW), 2018	
	* : equal contribution	
RESEARCH EXPERIENCE	<b>AI Institute for SNU (AIIS)</b> Research Assistant Advisor: Prof. Byoung-Tak Zhang I have studied “grounded language learning” which aims to connect language to non-linguistic experiences such as sensory perception and action.	Seoul, Korea Summer 2020 – Present
	<b>SK Telecom AI Center</b> Research Intern Mentor: Jin-Hwa Kim and Hwaran Lee Worked the graph neural network-based algorithms for visually-grounded dialogue. We proposed Sparse Graph Learning (SGL) algorithm that discovers inherently sparse structures of the human dialogue. Published at Findings of EMNLP 2021.	Seoul, Korea Spring 2020

**Seoul National University (SNU)**

Research Assistant

Seoul, Korea

Mar. 2018 – Feb. 2020

*Advisor: Prof. Byoung-Tak Zhang*

Studied the machine learning algorithms for visually-grounded dialogue system. For the visual dialog dataset, we proposed Dual Attention Networks for the question disambiguation and visual groundings. Published at EMNLP 2019.

**HONORS &  
AWARDS**

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

**RESEARCH  
PROJECTS**

**Video Turing Test (VTT):** 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.

**Machine Learning for Home Appliances, LG Electronics:** Industry-Academia Cooperative Research with LG Electronics. Optimizing a motor control of an electric washing machine using ML technique.

**INVITED  
TALKS***Dual Attention Networks for Visual Reference Resolution in Visual Dialog*ICCV 2019 - Video Turing Test Workshop (**Spotlight**)

Nov. 2019

SK Telecom AI Center

Sept. 2019

**EXTRA  
CURRICULAR  
ACTIVITIES**

BI Lab Conference Deadline Site Administrator

2018 – Present

Military Service in Republic of Korea Army

2012 – 2014