

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 | |
| PUBLICATIONS | [5] Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer Gi-Cheon Kang, Junseok Park, Hwaran Lee, Byoung-Tak Zhang*, and Jin-Hwa Kim* Findings of the Empirical Methods in Natural Language Processing (Findings of EMNLP), 2021 | |
| | [4] Attend What You Need: Motion-Appearance Synergistic Networks for Video Question Answering Ahjeong Seo, Gi-Cheon Kang, Joonhan Park, and Byoung-Tak Zhang Annual Meeting of the Association for Computational Linguistics (ACL), 2021 | |
| | [3] Label Propagation Adaptive Resonance Theory for Semi-Supervised Continuous Learning Taehyeong Kim, Injune Hwang, Gi-Cheon Kang, Won-Seok Choi, Hyunseo Kim, Byoung-Tak Zhang IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2020 | |
| | [2] Dual Attention Networks for Visual Reference Resolution in Visual Dialog Gi-Cheon Kang, Jaeseo Lim, and Byoung-Tak Zhang Empirical Methods in Natural Language Processing (EMNLP), 2019 | |
| | [1] Contextualized Bilinear Attention Networks Gi-Cheon Kang, Seonil Son, and Byoung-Tak Zhang ECCV Workshop on VizWiz Grand Challenge, (ECCVW), 2018 | |
| | * : equal contribution | |
| RESEARCH EXPERIENCE | AI Institute for SNU (AIIS) 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 |
| | SNU-NAVER Hyperscale AI Center Student Researcher Working on the multi-agent systems that perform the grounded collaborative dialogue. | Seoul, Korea Summer 2021 – Present |

SK Telecom AI Center

Research Intern

With Jin-Hwa Kim and Hwaran Lee

Developed Sparse Graph Learning (SGL) algorithm that discovers inherently sparse semantic structures of the human conversation. Published at Findings of EMNLP 2021.

Seoul, Korea

Spring 2020

Seoul National University (SNU)

Research Assistant

Advisor: Prof. Byoung-Tak Zhang

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.

Seoul, Korea

Mar. 2018 – Feb. 2020

**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

**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