

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 | 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 | 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 | [6] Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer 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 | |
| | [5] Attend What You Need: Motion-Appearance Synergistic Networks for Video Question Answering Ahjeong Seo, Gi-Cheon Kang, Joonhan Park, and Byoung-Tak Zhang <i>Annual Meeting of the Association for Computational Linguistics (ACL)</i> , 2021 | |
| | [4] 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 <i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i> , 2020 | |
| | [3] Dual Attention Networks for Visual Reference Resolution in Visual Dialog Gi-Cheon Kang, Jaeseo Lim, and Byoung-Tak Zhang <i>Empirical Methods in Natural Language Processing (EMNLP)</i> , 2019 | |
| | [2] Contextualized Bilinear Attention Networks Gi-Cheon Kang, Seonil Son, and Byoung-Tak Zhang <i>ECCV Workshop on VizWiz Challenge, (ECCVW)</i> , 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 |
| | SK Telecom AI Center 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