

Gi-Cheon Kang

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 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	<p>[6] C^3: Contrastive Learning for Cross-domain Correspondence in Few-shot Image Generation Hyukgi Lee, <u>Gi-Cheon Kang</u>, Chang-Hoon Jeong, Hanwool Sul, Junseok Park, and Byoung-Tak Zhang <i>NeurIPS Workshop on Controllable Generative Modeling in Language and Vision (NeurIPSW)</i>, 2021</p> <p>[5] Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer <u>Gi-Cheon Kang</u>, Junseok Park, Hwaran Lee, Byoung-Tak Zhang*, and Jin-Hwa Kim* <i>Findings of Empirical Methods in Natural Language Processing (Findings of EMNLP)</i>, 2021</p> <p>[4] Attend What You Need: Motion-Appearance Synergistic Networks for Video Question Answering Ahjeong Seo, <u>Gi-Cheon Kang</u>, Joonhan Park, and Byoung-Tak Zhang <i>Annual Meeting of the Association for Computational Linguistics (ACL)</i>, 2021</p> <p>[3] Label Propagation Adaptive Resonance Theory for Semi-Supervised Continuous Learning Taehyeong Kim, Injune Hwang, <u>Gi-Cheon Kang</u>, Won-Seok Choi, Hyunseo Kim, Byoung-Tak Zhang <i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i>, 2020</p> <p>[2] Dual Attention Networks for Visual Reference Resolution in Visual Dialog <u>Gi-Cheon Kang</u>, Jaeseo Lim, and Byoung-Tak Zhang <i>Empirical Methods in Natural Language Processing (EMNLP)</i>, 2019</p> <p>[1] Contextualized Bilinear Attention Networks <u>Gi-Cheon Kang</u>, Seonil Son, and Byoung-Tak Zhang <i>ECCV Workshop on VizWiz Grand Challenge (ECCVW)</i>, 2018</p> <p>* : equal contribution</p>	
HONORS & AWARDS	Best Paper Award @ Korea Software Congress (KSC) Ranked 3rd Place, Visual Dialog Challenge @ CVPR 2019 Software-Centered University Hackathon, Prize from Microsoft Korea Yeoju Honor Scholarship	Dec. 2019 June 2019 Sept. 2017 May 2016

RESEARCH EXPERIENCE	<p>SNU-NAVER Hyperscale AI Center, Seoul, Korea Sept. 2021 – May 2022 Student Researcher <i>With Jin-Hwa Kim, Sungdong Kim, and Donghyun Kwak</i> Working on grounded collaborative dialogue.</p> <p>SK Telecom AI Center, Seoul, Korea Jan. 2020 - March. 2020 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.</p> <p>Seoul National University (SNU), Seoul, Korea Mar. 2018 – Present 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. Developed the machine learning algorithms for the visually-grounded dialogue systems (EMNLP 2019).</p>
RESEARCH PROJECTS	<p>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.</p> <p>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.</p>
INVITED TALKS	<p><i>Reasoning Visual Dialog with Sparse Graph Learning and Knowledge Transfer</i> KSC 2021 - Top-tier Conference Paper Presentation Session Dec. 2021 Annual Conference on Human and Cognitive Language Technology Oct. 2021</p> <p><i>Dual Attention Networks for Visual Reference Resolution in Visual Dialog</i> ICCV 2019 - Video Turing Test Workshop (Spotlight) Nov. 2019 SK Telecom AI Center Sept. 2019</p>
EXTRA CURRICULAR ACTIVITIES	<p>BI Lab Conference Deadline Site Administrator 2018 – Present Military Service in Republic of Korea Army 2012 – 2014</p>