

# Gi-Cheon Kang

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<b>CONTACT INFORMATION</b>	205, Building 942	<i>email:</i> chonkang@snu.ac.kr
	Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea	<i>website:</i> gicheonkang.com
<b>EDUCATION</b>	<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 Thesis: Deep Representation Learning for Visually-Grounded Dialogue	Mar. 2018 – Feb. 2020
	<b>Ajou University</b> , Suwon, Korea B.S. in Software and Computer Engineering	Mar. 2011 – Feb. 2018
<b>INTERESTS</b>	Machine Learning, Natural Language Processing, Grounded Language Learning	
<b>RESEARCH EXPERIENCE</b>	<b>SNU-NAVER Hyperscale AI Center</b> , Seoul, Korea Student Researcher <i>With Jin-Hwa Kim, Sungdong Kim, and Donghyun Kwak</i> Developed a semi-supervised learning algorithm for visual dialog, called Generative Self-Training, that generates visually-grounded dialogs and trains a dialog agent.	Sept. 2021 – May 2022
	<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.	Jan. 2020 - March. 2020
	<b>Seoul National University (SNU)</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. Developed the machine learning algorithms for the visually-grounded dialogue systems (EMNLP 2019).	Mar. 2018 – Present
	<b>HONORS &amp; AWARDS</b>	Daeha Scholarship May 2022 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>PREPRINTS</b>	[9] <b>The Dialog Must Go On: Improving Visual Dialog via Generative Self-Training</b> Gi-Cheon Kang, Sungdong Kim*, Jin-Hwa Kim*, Donghyun Kwak*, and Byoung-Tak Zhang arXiv preprint 2205.12502, 2022	
<b>CONFERENCE PUBLICATIONS</b>	[8] <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 (EMNLP Findings)</i> , 2021	

[7] **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

[6] **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

[5] **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

#### WORKSHOP PAPERS

[4] **Generative Self-training improves Pre-training for Visual Dialog**  
 Gi-Cheon Kang, Sungdong Kim\*, Jin-Hwa Kim\*, Donghyun Kwak\*, and Byoung-Tak Zhang  
*ICML Workshop on Pre-training: Perspectives, Pitfalls, and Paths Forward (ICMLW)*, 2022  
 (preliminary version of the paper [9])

[3] **Improving Robustness to Texture Bias via Shape-focused Augmentation**  
 Sangjun Lee, Inwoo Hwang, Gi-Cheon Kang, and Byoung-Tak Zhang  
*CVPR Workshop on Human-centered Intelligent Services: Safety and Trustworthy (CVPRW)*, 2022

[2] **C<sup>3</sup>: Contrastive Learning for Cross-domain Correspondence in Few-shot Image Generation**  
 Hyukgi Lee, Gi-Cheon Kang, Chang-Hoon Jeong, Hanwool Sul, Junseok Park, and Byoung-Tak Zhang  
*NeurIPS Workshop on Controllable Generative Modeling in Language and Vision (NeurIPSW)*, 2021

[1] **Contextualized Bilinear Attention Networks**  
 Gi-Cheon Kang, Seonil Son, and Byoung-Tak Zhang  
*ECCV Workshop on VizWiz Grand Challenge (ECCVW)*, 2018

#### INVITED TALKS

<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

<i>Dual Attention Networks for Visual Reference Resolution in Visual Dialog</i>	
ICCV 2019 - Video Turing Test Workshop ( <b>Spotlight</b> )	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