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Research Interest_

- Deep Learning, Natural Language Processing and Computer Vision.
- Interpretable AI system, Story Understanding and Graph Networks

Pub**lication**

Discovery of Natural Language Concepts in Individual Units

ICLR 2019

SEIL NA, YO JOONG CHOE, DONG-HYUN LEE, GUNHEE KIM.

Encoding Video and Label Priors for Multi-label Video Classification on YouTube-8M

CVPR 2017 Workshop

SEIL NA, YOUNGJAE YU, SANGHO LEE, JISUNG KIM(SKT), GUNHEE KIM.

A Read-Write Memory Network for Movie Story Understanding

ICCV 2017

SEIL NA, SANGHO LEE, JISUNG KIM(SKT), GUNHEE KIM.

Wor**k Experience** _

Kakaobrain Seongnam, S.Korea

RESEARCH INTERN Jan. 2018 - Feb. 2018

- Advisor: Yo Joong Choe, Dong-Hyun Lee
- · Conduct interpretable NLP research that explains what meaning intermediate representations have, how they are disentangled, how they vary with different layers, tasks, datasets, and training conditions.

SNU Vision and Learning Laboratory

Seoul, S.Korea

GRADUATE RESEARCH ASSISTANT

Mar. 2017 - Present

- · Advisor: Prof. Gunhee Kim
- I studied the problem of Question Answering on Movie Story Contents. In MovieQA Public Dataset, we proposed Read-Write MemoryNet which improved the existing End-to-End MemoryNet and ranked 1st in 4 out of 6 tasks as of ICCV 2017 submission deadline. Our paper related with this work is accepted in ICCV 2017 as a Poster.
- I participated in Kaggle Google Cloud & YouTube-8M Video Understanding Challenge, proposed new Video Classification models, and ranked the 8th(top1.2%) in the challenge. Our paper related to this is accepted as oral presentation in CVPR 2017 Workshop for YouTube-8M Large-Scale Video Understanding.

SNU Vision and Learning Laboratory

Seoul, S.Korea

Undergraduate Research Assistant

Jan. 2016 - Feb. 2017

- · Advisor: Prof. Gunhee Kim.
- · In order to solve Text Question Answering, I implemented and experimented several models including End-to-End MemoryNet and its variants.
- Transfer learning Faster-RCNN model from VOC dataset to ImageNet Dataset.

Samsung Software Membership Program

Seoul, S.Korea

• I participated in the development of SugarDream; NeuralNet-based sleeping solution application.

Feb. 2015 - June. 2016

- · I participated in the development of FootMap navigation application that guides road by vibrating the sensor on shoes, and awarded the Excellence Prize at the Science Makers Battle - Korea 2015.

Honors & Awards

INTERNATIONAL

SOFTWARE DEVELOPER

2017 Google Travel Grants, for ICCV 2017 Venice, Italy

2017 2nd Prize, MovieQA Video-based Answering Challenge Venice, Italy

SEIL NA · RÉSUMÉ **DECEMBER 24, 2018**

DOMESTIC

201520th Place, ACM-ICPC Daejeon RegionalDaejeon, S.Korea2015Excellent Prize, Science Makers Battle - KoreaDaejeon, S.Korea

Education.

Seoul National University

Seoul, S.Korea

M.S. CANDIDATE IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2017 - Present

• Advisor: Prof. Gunhee Kim (Vision and Learning Laboratory)

Hanyang University Seoul, S.Korea

Bachelor of Computer Science Engineering

Mar. 2013 - Feb. 2017

Kyung-an High School *Kyung-gi, S.Korea*

Mar. 2011 - Feb. 2013