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Research Interest

• Computer Vision, Vision and Language, Biological Vision, Story Understanding, Virtual Reality, Visual Storytelling, Transfer Learning

Education

Seoul National University (SNU)

Seoul, Korea

INTEGRATED MS / Ph.D PROGRAM IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2015 - Current

- Vision and Learning Lab (Advisor: Gunhee Kim)
- Completed master's degree

Seoul National University (SNU)

Seoul, Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2009 - 2015

B.S. Thesis

• 2010 – 2012, Compulsory Military Service. Served as a sergeant in R.O.K Marine Corp.

Publication

2015

INTERNATIONAL CONFERENCE

Domestic		
2017	Seil Na, Youngjae Yu , Sangho Lee, Jisung Kim, Gunhee Kim, <i>Encoding Video and Label Priors for Multi-label Video Classification on YouTube-8M dataset</i>	CVPR 2017 & YouTube-8M Large-Scale Video Understanding
2016	Youngjae Yu , Hyungjin Ko, Jongwook Choi, Gunhee Kim, <i>Video Captioning and Retrieval Models with Semantic Attention</i>	ECCV 2016 LSMDC & VisStory
Worksho	P P	
2017	Inuk Jung, Kyuri Jo, Hyejin Kang, Hongryul Ahn, Youngjae Yu , Sun Kim, <i>TimesVector: A Vectorized Clustering Approach to the Analysis of Time Series Transcriptome Data from Multiple Phenotypes</i>	Bioinformatics 2017
Journal		
2016	Inuk Jung, Kyuri Jo, Hyejin Kang, Hongryul Ahn, Youngjae Yu , Sun Kim, <i>TimesVector: A Vectorized Clustering Approach to the Analysis of Time Series Transcriptome Data from Multiple Phenotypes</i>	GIW 2016
	Spatio-Temporal Reasoning in Visual Question Answering	(Spotlight)
	Yunseok Jang, Yale Song, Youngjae Yu, Youngjin Kim, Gunhee Kim, TGIF-QA: Toward	CVPR 2017
	Video Captioning, Retrieval, and Question Answering	(Spotlight)
	Youngjae Yu, Hyungjin Ko, Jongwook Choi, Gunhee Kim, End-to-end Concept Word Detection for	CVPR 2017
2017	Youngjae Yu , Jongwook Choi, Yeonhwa Kim, Kyoung Yu, Sang-hun Lee, Gunhee Kim, Supervising Neural Attention Models for Video Captioning by Human Gaze Data	CVPR 2017
2018	Spatio-Temporal Highlight Detection from a 360° Video	AAAI 2018
	Young Jae Yu , Sangho Lee, Joonil Na, Jaeyun Kang, Gunnee Kim, <i>A Deep Ranking Model for</i>	

Youngjae Yu, Sangho Lee, Joonil Na, Jaeyun Kang, Gunhee Kim, A Deep Ranking Model for

Youngjae Yu, Sun Kim, Correlation Based Feature Selection and Pattern Clustering Method for Time

Series Gene Expression Data of Drought Stressed Rice



SNU, Vision and Learning Lab

Seoul, Korea

GRAUDATE RESEARCHER Feb 2015 – Current

- · Advisor: Gunhee Kim
- Multimodal info Retrieval. Developed methods for retrieving a corresponding movie-review blog(text and image, video contents) and aligning on movie using CRF (Conditional Random Field) algorithm. Also developed video retrieval from natural language sentence query. Won LSMDC (2016,2017) challenge
- Visual Summarization. Implemented Multi-channel ego-centric video summarization for industrial project. I also leading project for deep ranking model for 360 degree video summarization.
- Vision & Language, Visual QA. Won three competition in LSMDC 2016,2017 challenge (Multichoice QA, Movie Retrieval and Fill in the Blank). For video QA, I have the experience of leading the industry project on movieQA. Additionally, our team collected TGIF-QA dataset and develop state of the art method, which is presented in CVPR 2017 (spotlight). I actively try to use NLP to enhance machine intelligence of Vision.
- Video saliency prediction Developed recurrent saliency/human gaze prediction for video. Our work is presented in CVPR 2017.

SNU, Bioinformatics Lab Seoul, Korea

Undergraduate Researcher

June 2014 – Dec 2014

- · Advisor: Sun Kim
- Based on the opinion of the advisor, I developed the final term project in class as a research project. To classify RNA expression for drought resistance of rice from other, i tried unsupervised feature selection and clustering on water-stress controlled RNA expression data
- The result of research project is presented in GIW 2016 and Bioinformatics journal.

SNU, Electronic Low Power Lab

Seoul, Korea

May 2012 - Nov 2012

Undergraduate Researcher

- · Advisor: Naehyuck Chang
- Researched low power optimized architecture design for embedded system.
- FPGA programming and simulation experience.
- Measuring data for low power electronic vehicle.

Honors & Awards _____

INTERNATIONAL

2017	Fellowship,NAVER PhD Fellowship award	NAVER, Seoul
2017	1st prize, Movie Annotation and Retrieval track - Large Scale Movie Description and Understanding	ICCV 2017 LSMDC &
	Challenge (LSMDC 2017)	MovieQA
2017	1st prize, Movie Fill-in-the-Blank track - Large Scale Movie Description and Understanding	ICCV 2017 LSMDC &
	Challenge (LSMDC 2017)	MovieQA
2016	1st prize, Movie Annotation and Retrieval track - Large Scale Movie Description and Understanding	ECCV 2016 LSMDC &
	Challenge (LSMDC 2016)	VisStory
2016	1st prize, Movie Fill-in-the-Blank track - Large Scale Movie Description and Understanding	ECCV 2016 LSMDC &
	Challenge (LSMDC 2016)	VisStory

Teaching _____

2017	Lecture Instructor,Seoul Big Data Academy : Tensorflow basic,CNN,RNN	SNU
2017	Lecture Instructor,SKT Academy : Tensorflow basic, Introduction to CNN,RNN	SNU
2017	Teaching Assistant, Big Data Academy: Introduction to RNN	SNU
2016	Teaching Assistant,4190.773 : Probabilistic Graphical Model	SNU
2015	Teaching Assistant, 4190.307 : Operating System	SNU
2015	Teaching Assistant, M1522.001000 : Computer Vision	SNU