Youngjae Yu

https://yj-yu.github.io/home/

Research Interest _____

· Computer Vision, Natural Language Processing, Language Grounding, Audio-Visual Learning, Self-supervised Learning

Education _____

Allen Institute for AI Seattle, USA

POSTDOC (YOUNG INVESTIGATOR)

Mar. 2021 – Current

Mar. 2015 - Feb. 2021

Email: youngjaey@allenai.org

Mobile: +82-10-4096-1942

• Mosaic Team (Advisor: Yejin Choi)

Seoul National University (SNU)

Seoul, Korea

INTEGRATED MS / Ph.D PROGRAM IN COMPUTER SCIENCE AND ENGINEERING
• Vision and Learning Lab (Advisor: Gunhee Kim)

Seoul National University (SNU)

Seoul, Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2009 - 2015

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

Publications _____

INTERNATIONAL CONFERENCE

2021	Youngjae Yu , Jiwan Chung, Heeseung Yun, Jongseok Kim, and Gunhee Kim, <i>Transitional Adaptation of Pretrained Models for Visual Storytelling</i>	CVPR 2021
	Youngjae Yu , Sangho Lee, Gunhee Kim and Yale Song, <i>Self-Supervised Learning of Compressed Video Representations</i>	ICLR 2021
	Sangho Lee, Youngjae Yu , Gunhee Kim, Thomas Breuel, Jan Kautz and Yale Song, Parameter Efficient Multimodal Transformers for Video Representation Learning	ICLR 2021
2020	Jongseok Kim, Youngjae Yu , Hoeseong Kim and Gunhee Kim, <i>Dual Compositional Learning</i> for Interactive Image Retrieval	AAAI 2021
	Youngjae Yu , Jongseok Kim, Heeseung Yun, Jiwan Chung and Gunhee Kim, <i>Character Grounding and Re-Identification in Story of Videos and Text Descriptions</i>	ECCV 2020 (Spotlight)
2018	Youngjae Yu , Jongseok Kim and Gunhee Kim, <i>A Joint Sequence Fusion Model for Video Question Answering and Retrieval</i>	ECCV 2018
	Sangho Lee, Jinyoung Sung, Youngjae Yu and Gunhee Kim, <i>A Memory Network Approach</i> for Story-based Temporal Summarization of 360° Videos	CVPR 2018
	Youngjae Yu , Sangho Lee, Joonil Na, Jaeyun Kang, Gunhee Kim, <i>A Deep Ranking Model for Spatio-Temporal Highlight Detection from a 360° Video</i>	AAAI 2018
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
	Youngjae Yu, Hyungjin Ko, Jongwook Choi, Gunhee Kim, End-to-end Concept Word	CVPR 2017
	Detection for Video Captioning, Retrieval, and Question Answering	(Spotlight)
	Yunseok Jang, Yale Song, Youngjae Yu , Youngjin Kim, Gunhee Kim, <i>TGIF-QA: Toward</i>	CVPR 2017
	Spatio-Temporal Reasoning in Visual Question Answering	(Spotlight)
	Inuk Jung, Kyuri Jo, Hyejin Kang, Hongryul Ahn, Youngjae Yu , Sun Kim, <i>TimesVector: A</i>	
2016	Vectorized Clustering Approach to the Analysis of Time Series Transcriptome Data from Multiple Phenotypes	GIW 2016

JOURNAL

2019	Yunseok Jang, Yale Song, Chris Dongjoo Kim, Youngjae Yu , Youngjin Kim, Gunhee Kim, <i>Video Question Answering with Spatio-Temporal Reasoning</i>	IJCV 2019
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
Worksho	P PAPERS	
2020	Youngjae Yu *, Jongseok Kim *, Seunghwan Lee, Gunhee Kim, (* is equal contribution.), <i>Cycled Compositional Learning between Images and Text</i>	CVPR 2020 CVFAD
	Hankyol Lee, Youngjae Yu , Gunhee Kim, <i>Augmenting Data for Sarcasm Detection with Unlabeled Conversation Context</i>	In ACL 2020, FLP
2019	Youngjae Yu , Seunghwan Lee, Yuncheol Choi, Gunhee Kim, <i>CurlingNet: Compositional Learning between Images and Text for Fashion IQ Data</i>	ICCV 2019 CVFAD
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
2016	Youngjae Yu , Hyungjin Ko, Jongwook Choi, Gunhee Kim, <i>Video Captioning and Retrieval Models with Semantic Attention</i>	ECCV 2016 LSMDC & VisStory
THESIS		
2015	Youngjae Yu , Sun Kim, <i>Correlation Based Feature Selection and Pattern Clustering Method</i> for Time Series Gene Expression Data of Drought Stressed Rice	B.S. Thesis
In Prep		
AAAI 2022 (Prep)	Youngjae Yu , Gunhee Kim, <i>Self-supervised Character Representation Learning for Video Story</i>	
AAAI 2022 (Prep)	Jiwan Chung, Youngjae Yu , Heeseung Yun, Jongseok Kim, Eunkyu Park, Gunhee Kim, <i>Who is who?, Character Information as Attention Priors) (An Winning Solution for DramaQA)</i>	

Professional Experience _____

2021-	Young Investigator, Allen Institute for Al
Current	roung investigator, Attentionation Ar
2018-2021	Software Engineer, Research Scientist, RippleAl
2015-2018	Graduate Teaching Assistant, Seoul National University
2018	Research Intern, Redmond, Microsoft
2017	NAVER PhD Fellowship, Naver
2018	Lecture Instructor , Samsung DS Artificial Intelligence course : NLP and Vision
2012-2014	Undergraduate Research Assistant, Seoul National University

Professional Development _____

Academic Activities

- Conference, Journal (CVPR, ECCV, ICCV, ACCV, AAAI, Neurips, ICLR, ICMI, MM, TCSVT)
- Workshop (LUV (2019))

Other Skills

PROGRAMMING

- Programming Languages. Python, R, C/C++, Java, Shell scripts (bash, zsh), Matlab, Ocaml
 ML/DL Frameworks. TensorFlow, PyTorch, Caffe
 Operating Systems. Linux (Ubuntu), macOS, Windows

- Other Tools and Skills. Git, Latex, Vim

Honors & Awards _____

2021	Award, College of Engineering, Best Thesis Award	SNU, College of
		Engineering
2021	Award, BK Excellent Researcher Award	SNU
2021	Award, The Best Doctoral Dissertation Award	SNU CSE
2020	130K \$ investment, Leader of RippleAl Team, Al Challenge-NIPA	Seoul, Korea
2020	1st prize, DramaQA Challenge	ECCV 2020
2020	1st prize, Fashion IQ 2020 Challenge	CVPR 2020
2020	1st prize , Sarcasm detection shared task - The Second Workshop on Figurative Language	ACL 2020
2020	Processing	
2019	2nd prize, Fashion IQ 2019 Challenge	ICCV 2019
2019	1st prize, Large Scale Movie Description and Understanding Challenge (LSMDC 2019)	ICCV 2019 CLVL
2017	Fellowship, NAVER PhD Fellowship award	NAVER
2018	Google Travel Grants, Grant recipient for attending ECCV 2018 (Munich, Germany)	Google
2018	Kakao Travel Grants, Grant recipient for attending ICLR 2018 (Vancouver, Canada)	Kakao
2017	1st prize , Movie Annotation and Retrieval track, Movie Fill-in-the-Blank track - Large Scale	ICCV 2017 LSMDC
2017	Movie Description and Understanding Challenge (LSMDC 2017)	& MovieQA
2016	1st prize , Movie Annotation and Retrieval track, Movie Fill-in-the-Blank track - Large Scale	ECCV 2016 LSMDC
	Movie Description and Understanding Challenge (LSMDC 2016)	& VisStory

Teaching Experience _____

2019	Mentoring, Multimodal Learning for Videos	RippleAl
2018	Teaching Assistant, Samsung DS ² Artificial Intelligence course: NLP and Vision	SNU
2017	Workshop Instructor, Resource development: Theory and Application of Deep Learning	SNU
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