

Donghyun Kim

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RESEARCH INTERESTS Transfer Learning, Un/Self-supervised Learning, Universal Representation Learning
Computer Vision & Deep Learning

EDUCATION **Boston University**, Boston, MA

Ph.D. Student, Computer Science, Aug 2017 - Present
Advisor: Prof. Stan Sclaroff, Prof. Kate Saenko
Research Group: Image and Video Computing Group

University of Southern California, Los Angeles, CA

M.S., Computer Science, May 2017

- GPA: 3.9/4.0

Sogang University, Seoul, Korea

B.S., Computer Science and Engineering, July 2014

- Graduated Salutatorian with *Magna Cum Laude*

PREPRINTS & WORKSHOPS

1. **Donghyun Kim**, Kuniaki Saito, Tae-Hyun Oh, Bryan A Plummer, Stan Sclaroff, Kate Saenko. Cross-domain Self-supervised Learning for Domain Adaptation with Few Source Labels. [arXiv]
2. **Donghyun Kim**, Tian Lan, Chuhan Zou, Ning Xu, Bryan A Plummer, Stan Sclaroff, Jayan Eledath, Gerard Medioni. Multi-Task Learning from Videos via Efficient Inter-Frame Attention. [arXiv]
3. **Donghyun Kim**, Kuniaki Saito, Kate Saenko, Stan Sclaroff, Bryan Plummer. MULE: Multimodal Universal Language Embedding. ICCV CLVL Workshop, 2019. [PDF]

PUBLICATIONS

1. Kuniaki Saito, **Donghyun Kim**, Stan Sclaroff, Kate Saenko. Universal Domain Adaptation Through Self-supervision. Neural Information Processing Systems (NeurIPS), 2020. [arXiv]
2. Andrea Burns, **Donghyun Kim**, Derry Wijaya, Kate Saenko, Bryan A Plummer. Learning to Scale Multilingual Representations for Vision-Language Tasks. European Conference on Computer Vision (ECCV), 2020 (Spotlight). [arXiv]
3. **Donghyun Kim**, Sarah Adel Bargal, Jianming Zhang, Stan Sclaroff. Multi-way Encoding for Robustness. Winter Conference on Applications of Computer Vision (WACV), 2020. [arXiv]
4. **Donghyun Kim**, Kuniaki Saito, Kate Saenko, Stan Sclaroff, Bryan Plummer. MULE: Multimodal Universal Language Embedding. AAI, 2020 (Oral). [arXiv]
5. Kuniaki Saito, **Donghyun Kim**, Stan Sclaroff, Trevor Darrell, Kate Saenko. Semi-supervised Domain Adaptation via Minimax Entropy. International Conference on Computer Vision (ICCV), 2019. [arXiv]

6. Sarah Adel Bargal*, Andrea Zunino*, **Donghyun Kim**, Jianming Zhang, Vittorio Murino, Stan Sclaroff. Excitation Backprop for RNNs. Computer Vision and Pattern Recognition (CVPR), 2018. [[arXiv](#)]
7. **Donghyun Kim**, Matthias Hernandez, Jongmoo Choi, Gérard Medioni. Deep 3D Face Identification., International Joint Conference on Biometrics (IJCB), 2017 (Oral). [[arXiv](#)]
8. **Donghyun Kim**, Jongmoo Choi, Jatuporn Toy Leksut, Gérard Medioni. Expression Invariant 3D Face Modeling from an RGB-D Video. International Conference on Pattern Recognition (ICPR), 2016 (Oral). [[PDF](#)]
9. **Donghyun Kim**, Jongmoo Choi, Jatuporn Toy Leksut, Gérard Medioni. Accurate 3D face modeling and recognition from RGB-D stream in the presence of large pose changes. IEEE International Conference on Image Processing (ICIP), 2016. [[PDF](#)]

WORK EXPERIENCE	Research Intern , NEC Labs, Seattle, WA	June 2020 to Aug 2020
	<ul style="list-style-type: none"> • Project: Domain adaptation, Mentor: Dr. Yi-Hsuan Tsai 	
	Research Intern , Amazon Go , Seattle, WA	May 2019 to Aug 2019
	<ul style="list-style-type: none"> • Project: Multi-task Learning for Video Streams 	
	Research Intern , ObEN Inc. , Pasadena, CA	May 2017 to Aug 2017
	<ul style="list-style-type: none"> • Project: 3D Face Reconstruction from a 2D Image with Leep Dearning 	
	Research Assistant , Computer Vision lab at USC	Aug 2015 to May 2017
	<ul style="list-style-type: none"> • Project: 3D Face Modeling from RGBD Streams and Recognition with Deep Learning 	

TECHNICAL SKILL PyTorch, TensorFlow, Keras, C, C++,Objective C, Python, Matlab