

Dahun Kim

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Research Interests	<ul style="list-style-type: none">• Deep Learning; Weakly-supervised localization, Self-supervised representation learning, Multi-task learning.• Computer Vision; Image/Video understanding, Image/Video Processing, Representation learning, Object localization	
Research Experiences	<ul style="list-style-type: none">• Adobe Research, San Jose, CA, Research Intern, Deep Learning Group, Creative Intelligence Lab• KAIST, Daejeon, Korea, Research Assistant, Robotics and Computer Vision Lab,	<div>Jun.2019 - Sep.2019</div> <div>Mar.2016 - Present</div>
Education	<p>Ph.D. in Electrical Engineering, KAIST, Advisor: Prof. In So Kweon</p> <p>M.S. in Electrical Engineering, KAIST, Thesis: "Reducing Human Supervision in Supervised Learning" Advisor: Prof. In So Kweon</p> <p>B.S. in Electrical Engineering, KAIST, Received Full Scholarship</p>	<div>Mar.2018 - Present</div> <div>Mar.2016 - Feb.2018</div> <div>Feb.2012 - Feb.2016</div>
Publications	<ol style="list-style-type: none">1. Dahun Kim*, Sanghyun Woo*, Joon-Young Lee, In So Kweon, "Recurrent Temporal Aggregation Framework for Deep Video Inpainting", in <i>IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)</i>, 2020.2. Yunjae Jung, Dahun Kim, Sanghyun Woo, Kyunsu Kim, Sungjin Kim, In So Kweon, "Hide-and-Tell: Learning to Bridge Photo Streams for Visual Storytelling", in <i>Association for the Advancement of Artificial Intelligence (AAAI)</i>, Jan. 2020.3. Kwanyong Park, Sanghyun Woo, Dahun Kim, Donghyeon Cho, In So Kweon, "Preserving Semantic and Temporal Consistency for Unpaired Video-to-Video Translation", in <i>ACM Multimedia (MM)</i>, 2019.4. Donghyeon Cho, Yunjae Jung, Francois Rameau, Dahun Kim, Sanghyun Woo, In So Kweon, "Video Retargeting: Trade-off between Content Preservation and Spatio-temporal Consistency", in <i>ACM Multimedia (MM)</i>, 2019.5. Dahun Kim*, Sanghyun Woo*, Joon-Young Lee, In So Kweon, "Deep Video Inpainting", in <i>IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)</i>, Jul. 2019.6. Dahun Kim*, Sanghyun Woo*, Joon-Young Lee, In So Kweon, "Deep Blind Video Decaptioning by Temporal Aggregation and Recurrence", in <i>IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)</i>, Jul. 2019.	

7. **Dahun Kim**, Donghyeon Cho, In So Kweon,
"Self-Supervised Video Representation Learning with Space-Time Cubic Puzzles",
in *Association for the Advancement of Artificial Intelligence (AAAI)*, Jan. 2019. [Oral]
8. Yunjae Jung, Donghyeon Cho, **Dahun Kim**, Sanghyun Woo, In So Kweon,
"Discriminative Feature Learning for Unsupervised Video Summarization",
in *Association for the Advancement of Artificial Intelligence (AAAI)*, Jan. 2019. [Oral]
9. Sanghyun Woo*, **Dahun Kim***, Donghyeon Cho, In So Kweon,
"LinkNet: Relational Embedding for Scene Graph",
in *Neural Information Processing Systems (NIPS)*, Dec. 2018.
10. **Dahun Kim**, Donghyeon Cho, Donggeun Yoo, In So Kweon,
"Learning Image Representations by Completing Damaged Jigsaw Puzzles",
in *IEEE Winter Conf. on Applications of Computer Vision (WACV)*, Mar. 2018. [Oral]
11. **Dahun Kim**, Donghyeon Cho, Donggeun Yoo, In So Kweon,
"Two-Phase Learning for Weakly Supervised Object Localization",
in *IEEE International Conf. on Computer Vision (ICCV)*, Oct. 2017.

Reviewer
Experiences

- IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) 2020
- Association for the Advancement of Artificial Intelligence (AAAI) 2020
- IEEE International Conf. on Computer Vision (ICCV) 2019
- IEEE Trans. on Neural Networks and Learning Systems (TNNLS)

Honors

- Microsoft Research Asia (MSRA) Ph.D Fellowship 2019 Winner Oct.2019
- Global Ph.D Fellowship, National Research Foundation of Korea Aug.2018 - Present
(about \$20K /year + Full scholarship for 2+1 years)
- 1st Place Award in ChaLearnLAP 2018 Inpainting Challenge Track 2 Sep.2018
– video decaptioning (ECCV2018 Challenge)
- International Computer Vision Summer School (ICVSS), Sicily, Italy Jul.2018
- Honorable Mention, 24th HumanTech Paper Award, Feb.2018
Samsung Electronics Co., Ltd. (\$2,000)

Teaching
Experiences

Teaching assistant at EE dept., KAIST
 EE305 Introduction to electronics lab. (Spring, 2017)
 EE209 Programming Structures for Electrical Engineering (Fall, 2017)
 EE898 Advanced Topics in Deep Learning for Robotics and Vision (Spring, 2018)

Computer
Skills

Languages: Python, Matlab, C, Lua
Libraries: Pytorch, Caffe

Languages

English(fluent), Korean(native)

References

Prof. In So Kweon
 School of Electrical Engineering, KAIST
 Email: iskweon77@kaist.ac.kr
 Homepage: <http://rcv.kaist.ac.kr>
 Relationship: M.S. - Ph.D. advisor in KAIST