

Dahun Kim

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Research Interests	<ul style="list-style-type: none">• Deep Learning; Minimal human supervision: Self-supervised learning, Weakly-supervised learning.• Computer Vision; Recognition, Image/Video understanding (pixel level, high level), Image/Video Processing, Representation learning	
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, "Video Panoptic Segmentation", in <i>IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)</i>, June. 2020.2. 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>, Accepted.3. 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. 2020.4. 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>, Oct. 2019.5. 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>, Oct. 2019.6. 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.	

7. **Dahun Kim***, Sanghyun Woo*, Joon-Young Lee, In So Kweon,
"Deep Blind Video Decaptioning by Temporal Aggregation and Recurrence",
in *IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, Jul. 2019.
8. **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]
9. 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]
10. Sanghyun Woo*, **Dahun Kim***, Donghyeon Cho, In So Kweon,
"LinkNet: Relational Embedding for Scene Graph",
in *Neural Information Processing Systems (NIPS)*, Dec. 2018.
11. **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]
12. **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

- European Conf. on Computer Vision (ECCV) 2020
- 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 (\$10,000) Oct.2019
- Global Ph.D Fellowship, National Research Foundation of Korea Aug.2018 - Present
(about \$60K + 3-Year Full scholarship)
- 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)
- Lab Student Representative (over 30 members), Sep.2018 - Present

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)
 - EE735 Computer Vision (Fall, 2019)

Computer
Skills

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

Languages

English(fluent), Korean(native)

References

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