Huiyu Wang

(310) 948 - 0803
huiyu@jhu.edu
https://csrhddlam.github.io

EDUCATION

Johns Hopkins University   Aug 2017 - present
Ph.D. Candidate in Computer Science
    Advisor: Alan Yuille

University of California, Los Angeles   Sep 2015 - Dec 2016
M.S. in Electrical Engineering
    GPA: 3.97 / 4.00

Shanghai Jiao Tong University   Sep 2011 - Jun 2015
B.S. in Information Engineering
    GPA: 90.0 / 100.0

EXPERIENCE

Google LLC, Remote   Aug 2019 - present
Student Researcher
Mentors: Liang-Chieh Chen, Yukun Zhu

Google LLC, Seattle, WA   May 2019 - Aug 2019
Research Intern
Mentors: Yukun Zhu, Liang-Chieh Chen

Allen Institute for Artificial Intelligence, Seattle, WA   May 2018 - Aug 2018
Research Intern
AI2 Outstanding Intern of 2018 Award
Mentors: Mohammad Rastegari, Aniruddha Kembhavi, Ali Farhadi

Johns Hopkins University, Baltimore, MD   Jan 2017 - Aug 2017
Research Assistant
Advisor: Alan Yuille

TuSimple LLC, San Diego, CA   Jun 2016 - Nov 2016
Research Engineering Intern
Mentor: Xiaodi Hou

University of California, Los Angeles, Los Angeles, CA   Apr 2016 - Jun 2016
Research Assistant
Advisors: Ying Nian Wu, Song-Chun Zhu

Shanghai Jiao Tong University, Shanghai, China   Dec 2014 - Jun 2015
Undergraduate Researcher
Advisor: Li Song

PUBLICATIONS

Mark Weber[*], **Huiyu Wang**[*], Siyuan Qiao[*], Jun Xie, Maxwell D. Collins, Yukun Zhu, Liangzhe Yuan, Dahun Kim, Qihang Yu, Daniel Cremers, Laura Leal-Taixe, Alan Yuille, Florian Schroff, Hartwig Adam, and Liang-Chieh Chen. DeepLab2: A TensorFlow Library for Deep Labeling. *Computing Research Repository, arXiv:2106.09748*, 2021.

Huiyu Wang, Yukun Zhu, Hartwig Adam, Alan Yuille, and Liang-Chieh Chen. MaX-DeepLab: End-to-End Panoptic Segmentation with Mask Transformers. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 5463-5474, 2021.

Chen Wei, **Huiyu Wang**, Wei Shen, and Alan Yuille. CO2: Consistent Contrast for Unsupervised Visual Representation Learning. In *9th International Conference on Learning Representations (ICLR)*, 2021.

Liang-Chieh Chen, **Huiyu Wang**, and Siyuan Qiao. Scaling Wide Residual Networks for Panoptic Segmentation. *Computing Research Repository, arXiv:2011.11675*, 2020.

Huiyu Wang, Yukun Zhu, Bradley Green, Hartwig Adam, Alan Yuille, and Liang-Chieh Chen. Axial-DeepLab: Stand-Alone Axial-Attention for Panoptic Segmentation. In *European Conference on Computer Vision (ECCV)*, pages 108-126, Springer, Cham, 2020. **(Spotlight)**

Siyuan Qiao, **Huiyu Wang**, Chenxi Liu, Wei Shen, and Alan Yuille. Rethinking Normalization and Elimination Singularity in Neural Networks. *Computing Research Repository, arXiv:1911.09738*, 2019.

Adam Kortylewski, Qing Liu, **Huiyu Wang**, Zhishuai Zhang, and Alan Yuille. Combining Compositional Models and Deep Networks For Robust Object Classification under Occlusion. In *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, pages 1333-1341, 2020. **(Spotlight)**

Qing Liu, Lingxi Xie, **Huiyu Wang**, and Alan Yuille. Semantic-Aware Knowledge Preservation for Zero-Shot Sketch-Based Image Retrieval. In *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, pages 3662-3671, 2019.

Siyuan Qiao, **Huiyu Wang**, Chenxi Liu, Wei Shen, and Alan Yuille. Weight Standardization. *Computing Research Repository, arXiv:1903.10520*, 2019.

Huiyu Wang, Aniruddha Kembhavi, Ali Farhadi, Alan Yuille, and Mohammad Rastegari. ELASTIC: Improving CNNs with Dynamic Scaling Policies. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 2258-2267, 2019. **(Oral)**

Zhixuan Wei, Weidong Chen, Jingchuan Wang, **Huiyu Wang**, and Kang Li. Semantic Mapping for Safe and Comfortable Navigation of a Brain-Controlled Wheelchair. In *International Conference on Intelligent Robotics and Applications (ICIRA)*, pages 307-317, Springer, Berlin, Heidelberg, 2013.

FELLOWSHIPS AND AWARDS	Outstanding Reviewer, CVPR	2021
	Outstanding Reviewer, ECCV	2020
	AI2 Outstanding Intern	2018
	The SCSK® Scholarship	2014
	2nd prize, National Undergraduate Electronic Design Contest	2013
	1st prize, TI® Cup Electronic Design Contest of SJTU	2013
	Academic Excellence Scholarship, 2nd class, SJTU	2012, 2013, 2014

SKILLS	Programming Languages:	Python, C++, Java, Matlab, C#, LaTeX
	Deep Learning Tools:	PyTorch, TensorFlow, MXNet, Caffe