

Yizeng Han

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RESEARCH INTERESTS	My research focuses on machine learning and computer vision, in particular deep learning, efficient inference and dynamic neural networks.	
EDUCATION	Ph.D, Department of Automation, Tsinghua University 2018 - Present <i>Advisors:</i> Shiji Song and Gao Huang (First author of DenseNet, CVPR 2017 Best paper) B.S., Department of Automation, Tsinghua University 2014 - 2018 GPA Rank: 38/141	
RESEARCH EXPERIENCE	Intern, Megvii Technology 04/2023 - Present <i>Advisor:</i> Xiangyu Zhang (Author of ResNet, CVPR 2016 Best paper) Intern, Georgia Institute of Technology 06/2017 - 8/2017 <i>Advisor:</i> Gregory D Abowd	
AWARDS & HONORS	- National Scholarship, Ministry of Education of China 2022 - Comprehensive Merit Scholarship, Tsinghua University 2017 & 2016 - Academic Excellence Scholarship, Tsinghua University 2015	
PUBLICATIONS & PREPRINTS	<ol style="list-style-type: none">Yizeng Han*, Gao Huang*, Shiji Song, Le Yang, Honghui Wang, Yulin Wang. Dynamic neural networks: a survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</i>, 2021.Yizeng Han*, Dongchen Han*, Zeyu Liu, Yulin Wang, Xuran Pan, Yifan Pu, Chao Deng, Junlan Feng, Shiji Song, Gao Huang. Dynamic Perceiver for Efficient Visual Recognition. <i>International Conference on Computer Vision (ICCV)</i>, 2023.Yizeng Han*, Zhihang Yuan*, Yifan Pu*, Chenhao Xue, Shiji Song, Guangyu Sun, Gao Huang. Latency-aware Spatial-wise Dynamic Networks. <i>Conference on Neural Information Processing Systems (NeurIPS)</i>, 2022.Yizeng Han*, Yifan Pu*, Zihang Lai, Chaofei Wang, Shiji Song, Junfeng Cao, Wenhui Huang, Chao Deng, Gao Huang. Learning to Weight Samples for Dynamic Early-exiting Networks. <i>European Conference on Computer Vision (ECCV)</i>, 2022.Yizeng Han, Gao Huang, Shiji Song, Le Yang, Yitian Zhang, Haojun Jiang. Spatially adaptive feature refinement for efficient inference. <i>IEEE Transactions on Image Processing (TIP)</i>, 2021.Le Yang*, Yizeng Han*, Xi Chen, Shiji Song, Jifeng Dai, Gao Huang. Resolution adaptive networks for efficient inference. <i>Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2020.Yulin Wang, Zhaoxi Chen, Haojun Jiang, Shiji Song, Yizeng Han, G Huang. Adaptive Focus for Efficient Video Recognition. <i>International Conference on Computer Vision (ICCV, Oral)</i>, 2021.	

8. Chaofei Wang, Jiayu Xiao, **Yizeng Han**, Qisen Yang, Shiji Song, Gao Huang. Towards learning spatially discriminative feature representations. *International Conference on Computer Vision (ICCV)*, 2021.
9. Le Yang, Xiaoli Gong, Zhengwei Wu, **Yizeng Han**, Lijun He, Fan Li. Dark-channel mixed attention based neural networks for smoke detection in fog environment. *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*, 2021.
10. Cheng Zhang, Qiuyue Xue, Anandghan Waghmare, Ruichen Meng, Sumeet Jain, **Yizeng Han**, Xinyu Li, Kenneth Cunefare, Thomas Ploetz, Thad Starner, Omer Inan, Gregory D Abowd. FingerPing: Recognizing fine-grained hand poses using active acoustic on-body sensing. *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, 2018.
11. Yifan Pu, Yiru Wang, Zhuofan Xia, **Yizeng Han**, Yulin Wang, Weihao Gan, Zidong Wang, Shiji Song, Gao Huang. Adaptive Rotated Convolution for Rotated Object Detection. *International Conference on Computer Vision (ICCV)*, 2023.

*** Equal contribution**

INVITED TALKS - Alibaba Damo Academy, China	10/2022
& - Huawei Inc., China	01/2022
PRESENTATIONS - Jiqizhixin, China	03/2021

RESEARCH PROJECTS	- Dynamic convolutional neural network and its interpretability for resource-constrained scenarios, Tsinghua University	2020 - 2022
	- Da Vinci chip-friendly network architecture design, Tsinghua University	2020 - 2022
	- Adaptive deep learning and visual methods, Tsinghua University	2019 - 2020

REVIEWING & SERVICE	Reviewer for
	- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
	- International Journal of Computer Vision (IJCV)
	- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
	- International Conference on Machine Learning (ICML)
	- Conference on Neural Information Processing Systems (NeurIPS)
	- Conference on Computer Vision and Pattern Recognition (CVPR)
	- International Conference on Computer Vision (ICCV)
	- European Conference on Computer Vision (ECCV)
	- Pattern Recognition (PR)
	- International Conference on Image and Graphics (ICIG)