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研究领域	深度学习和计算机视觉, 尤其是资源受限场景下的高效学习和动态神经网络。	
教育经历	博士, 清华大学自动化系 导师: 宋士吉, 黄高 (DenseNet 一作, CVPR 2017 最佳论文奖) 本科, 清华大学自动化系 GPA 排名: 38/141	2018 - 2024  2014 - 2018
实习经历	旷视科技, 基础模型组 导师: 张祥雨 (ResNet 二作, ShuffleNet 一作, CVPR 2016 最佳论文奖) 佐治亚理工, 人机交互学院 导师: Gregory D Abowd	04/2023 - 12/2023  06/2017 - 8/2017
奖励与荣誉	- 清华大学优秀毕业生 - 清华大学优秀博士学位论文 - 北京市优秀毕业生 - 研究生综合奖学金, 清华大学 - 国家奖学金, 教育部 - 综合优秀奖学金, 清华大学 - 综合优秀奖学金, 清华大学 - 学业优秀奖学金, 清华大学	2024 2024 2024 2023 2022 2017 2016 2015
已发表论文	<ol style="list-style-type: none"><li><b>Yizeng Han*</b>, 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.</li><li><b>Yizeng Han*</b>, Zeyu Liu*, Zhihang Yuan*, Yifan Pu, Gao Huang, Shiji Song. Latency-aware Unified Dynamic Networks For Efficient Image Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</i>, 2024.</li><li><b>Yizeng Han</b>, 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.</li></ol>	

4. **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. *International Conference on Computer Vision (ICCV)*, 2023.
5. **Yizeng Han\***, Zhihang Yuan\*, Yifan Pu\*, Chenhao Xue, Shiji Song, Guangyu Sun, Gao Huang. Latency-aware Spatial-wise Dynamic Networks. *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
6. **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. *European Conference on Computer Vision (ECCV)*, 2022.
7. Le Yang\*, **Yizeng Han\***, Xi Chen, Shiji Song, Jifeng Dai, Gao Huang. Resolution adaptive networks for efficient inference. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
8. Yifan Pu\*, **Yizeng Han\***, Yulin Wang, Junlan Feng, Chao Deng, Gao Huang. Fine-grained Recognition with Learnable Semantic Data Augmentation. *IEEE Transactions on Image Processing (TIP)*, 2023.
9. Chaoqun Du\*, **Yizeng Han\***, Gao Huang. SimPro: A Simple Probabilistic Framework Towards Realistic Long-Tailed Semi-Supervised Learning. *International Conference on Machine Learning (ICML)*, 2024.
10. Dongchen Han\*, Tianzhu Ye\*, **Yizeng Han**, Zhuofan Xia, Shiji Song, Gao Huang. Agent Transformer: On the Integration of Softmax and Linear Attention. *European Conference on Computer Vision (ECCV)*, 2024.
11. Jiangshan Wang, Yifan Pu, Yiru Wang, **Yizeng Han**, Jiayi Guo, Xiu Li, Gao Huang, GRA: Detecting Oriented Objects through Group-wise Rotating and Attention. *European Conference on Computer Vision (ECCV)*, 2024.
12. Le Yang, Ziwei Zheng, textbfYizeng Han, Hao Cheng, Shiji Song, Gao Huang, Fan Li. DyFADet: Dynamic Feature Aggregation for Temporal Action Detection. *European Conference on Computer Vision (ECCV)*, 2024.
13. Yifan Pu, Zhuofan Xia, Jiayi Guo, Dongchen Han, Qixiu Li, Duo Li, Yuhui Yuan, Ji Li, **Yizeng Han**, Shiji Song, Gao Huang, Xiu Li. Efficient Diffusion Transformer with Step-wise Dynamic Attention Mediators. *European Conference on Computer Vision (ECCV)*, 2024.
14. Zhuofan Xia, Dongchen Han, **Yizeng Han**, Xuran Pan, Shiji Song, Gao Huang. GSVA: Generalized Segmentation via Multimodal Large Language Models. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.

15. Yong Xien Chng, Henry Zheng, **Yizeng Han**, Xuchong Qiu, Gao Huang. Mask Grounding for Referring Image Segmentation. *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
16. Dongchen Han, Xuran Pan, **Yizeng Han**, Shiji Song, Gao Huang. FLatten Transformer: Vision Transformer using Focused Linear Attention. *International Conference on Computer Vision (ICCV)*, 2023.
17. 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.
18. Yulin Wang, Yang Yue, Rui Lu, **Yizeng Han**, Shiji Song, Gao Huang. EfficientTrain++: Generalized Curriculum Learning for Efficient Visual Backbone Training. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2024.
19. Yulin Wang, Zhaoxi Chen, Haojun Jiang, Shiji Song, **Yizeng Han**, G Huang. Adaptive Focus for Efficient Video Recognition. *International Conference on Computer Vision (ICCV, Oral)*, 2021.
20. 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.
21. 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.
22. 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 CHI Conference on Human Factors in Computing Systems*, 2018.

#### 投稿与预印

1. Wangbo Zhao, Jiasheng Tang, **Yizeng Han**, Yibing Song, Kai Wang, Gao Huang, Fan Wang, Yang You. Dynamic tuning towards parameter and inference efficiency for vit adaptation. *In submission*.
2. Dongchen Han, Ziyi Wang, Zhuofan Xia, **Yizeng Han**, Yifan Pu, Chunjiang Ge, Jun Song, Shiji Song, Bo Zheng, Gao Huang. Demystify Mamba in Vision: A

Linear Attention Perspective. Demystify Mamba in Vision: A Linear Attention Perspective. *In submission.*

**\* 共同一作**

受邀演讲	- 阿里达摩院	10/2022
	- 华为	01/2022
	- 机器之心	03/2021
研究项目	- 面向资源受限场景的动态神经网络网络及其可解释性研究, 清华大学	2020 - 2022
	- 达芬奇芯片友好的神经网络架构设计, 清华大学	2020 - 2022
	- 面向深度学习的自适应推理方法研究, 清华大学	2019 - 2020
学术兼职	智源社区动态神经网络研究小组发起人 以下学术会议或期刊的 <b>审稿人</b>	
	- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	
	- International Journal of Computer Vision (IJCV)	
	- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)	
	- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)	
	- International Conference on Machine Learning (ICML)	
	- Conference on Neural Information Processing Systems (NeurIPS)	
	- International Conference on Learning Representations (ICLR)	
	- 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)	