

Yizeng Han

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| CONTACT INFORMATION | 616 Center Main Building, Tsinghua University, Beijing 100084, China | <i>Email:</i> hanyz18@mails.tsinghua.edu.cn <i>Phone:</i> (+86)18800127138 <i>Web:</i> www.yizenghan.top |
| RESEARCH INTERESTS | My research focuses on deep learning and computer vision, in particular dynamic neural networks and efficient learning/inference of deep models in resource-constrained scenarios. | |
| EDUCATION | Ph.D, Department of Automation, Tsinghua University | 2018 - Present |
| | <i>Advisors:</i> Shiji Song and Gao Huang | |
| | 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 | |
| | 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, 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.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.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.Dongchen Han, Xuran Pan, Yizeng Han, Shiji Song, Gao Huang. FLatten Transformer: Vision Transformer using Focused Linear Attention. <i>International Conference on Computer Vision (ICCV)</i>, 2023. | |

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.

*** Equal contribution**

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

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| 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 & **Reviewer for**

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| SERVICE | - 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) |