Qiming Zhang

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Education

The University of Sydney (USYD), Sydney, NSW, Australia 2020 – 2024 (expected)
PhD student in Computer Science (CS), expected 2025, supervised by Prof. Dacheng Tao

The University of Sydney (USYD), Sydney, NSW, Australia 2018 – 2020
Master of Philosophy in Computer Science (CS), supervised by Prof. Dacheng Tao

Zhejiang University (ZJU), Hangzhou, Zhejiang, China 2013 – 2017
B.S. in Electronics Engineering (EE)

Work Experience

JD Inc. JD Explore Academy, Beijing, China 2021 – 2022
Algorithm Researcher Intern

Tencent Inc. AI Lab, Shenzhen, China 2020 – 2021
Algorithm Researcher Intern Director: Wei Liu

Conference Papers

- Vision transformer with quadrangle attention, in Arxiv'23.
  ***Qiming Zhang**, Jing Zhang, Yufei Xu, Dacheng Tao*
- VSA: Learning Varied-Size Window Attention in Vision Transformers, in ECCV 2022.
  ***Qiming Zhang**, Yufei Xu, Jing Zhang, Dacheng Tao*
- Category Anchor-Guided Unsupervised Domain Adaptation for Semantic Segmentation, in NeurIPS 2019.
  ***Qiming Zhang**, Jing Zhang, Wei Liu, Dacheng Tao* CAG proposed prototype solutions for domain adaptation and has inspired a large span of works with 210+ citations by 5/2023.
- RegionCL: Can Simple Region Swapping Contribute to Contrastive Learning?, in ECCV 2022.
  Yufei Xu, **Qiming Zhang***, Jing Zhang, Dacheng Tao* (* denotes equal contribution.)
- ViTAE: Vision Transformer Advanced by Exploring Intrinsic Inductive Bias, in NeurIPS'2021.
  Yufei Xu, **Qiming Zhang***, Jing Zhang, Dacheng Tao* (* denotes equal contribution.)
- Structured Probabilistic Pruning for Convolutional Neural Network Acceleration, (oral) in BMVC 2018.
  Huan Wang, **Qiming Zhang***, Yuehai Wang, Haoji Hu*
- ViTPose+: Vision Transformer Foundation Model for Generic Body Pose Estimation, in Arxiv'23.
  *Yufei Xu, Jing Zhang, **Qiming Zhang**, Dacheng Tao*
- ViTPose: Simple Vision Transformer Baselines for Human Pose Estimation, in NeurIPS 2022.
  *Yufei Xu, Jing Zhang, **Qiming Zhang**, Dacheng Tao* ViTPose obtained the state-of-the-art performance on the MS COCO Keypoint benchmark and the it has obtained **605** starts on Github from 5/2022 to 2/2023.
- Grapy-ML: Graph Pyramid Mutual Learning for Cross-dataset Human Parsing, in AAAI 2020.
  *Haoyu He, Jing Zhang, **Qiming Zhang**, Dacheng Tao*
- Structured pruning for efficient convnets via incremental regularization, (oral) in IJCNN 2019.
  *Huan Wang, **Qiming Zhang**, Yuehai Wang, Lu Yu, Haoji Hu*

Journal Papers

- ViTAEv2: Vision Transformer Advanced by Exploring Inductive Bias for Image Recognition and Beyond, in International Journal of Computer Vision (IJCV) 2023. IF 13.369.
  ***Qiming Zhang**, Yufei Xu, Jing Zhang, Dacheng Tao*

ViTAE obtained the state-of-the-art on the ImageNet-Real benchmark. ViTAE series has obtained over **823** stars on Github from 09/2021 to 02/2023.

- Advancing Plain Vision Transformer Towards Remote Sensing Foundation Model, in IEEE Transactions on Geoscience and Remote Sensing (TGRS) 2022. IF 8.125.
  Di Wang, **Qiming Zhang***, Yufei Xu*, Jing Zhang, Bo Du, Dacheng Tao, Liangpei Zhang* (* denotes equal contribution.)
- Model and Transfer Spatial-Temporal Knowledge for Fine-Grained Radio Map Reconstruction, in IEEE Transactions on Cognitive Communications and Networking 2021.
  *Kehan Li, Chao Li, Baosheng Yu, Zhangchong Shen, **Qiming Zhang**, Shibo He, Jiming Chen*
- Boost Spectrum Prediction with Temporal-Frequency Fusion Network via Transfer Learning, in IEEE Transactions on Mobile Computing 2021.
  *Kehan Li, Chao Li, Jiming Chen, **Qiming Zhang**, Zebo Liu, Shibo He*
- Structured pruning for efficient convolutional neural networks via incremental regularization, in IEEE Journal of Selected Topics in Signal Processing, 2019.
  *Huan Wang, Xinyi Hu, **Qiming Zhang**, Yuehai Wang, Lu Yu, Haoji Hu*

CHALLENGE

- Winner of the Object Detection Track in the Maritime Computer Vision (MaCVi) Challenge, WACV'23.
- SOTA performance without using extra data in the ImageNet-Real benchmark.
- SOTA performance in the MS COCO benchmark.
- First place in NOIP Henan Province.

TALK

- Upcoming tutorial at CVPR 2023 - Foundation Models: A Sweeping Opportunity for Computer Vision
  ***Qiming Zhang**, Yufei Xu, Jing Zhang, Dacheng Tao.*
- Tutorial at WACV 2023 - Vision Transformer: More is Different.
  ***Qiming Zhang**, Yufei Xu, Jing Zhang, Dacheng Tao.*

SKILLS

- Programming Languages: Python, C, C++ > Java
- Platform: Linux

MISCELLANEOUS

- GitHub: https://github.com/RogerZhangzz
- Personal website: https://rogerzhangzz.github.io/
- Google Scholar: https://scholar.google.com/citations?user=f8rAZ7MAAAAJ (800 citations by 5/2023)
- Languages: English - Fluent, Mandarin - Native speaker