

Yaofu Chen | Curriculum Vitae

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Education

South China University of Technology	Guangzhou, China
Ph.D. in Software Engineering (Advisor: Prof. Mingkui Tan)	Sep. 2020 – Jun. 2024 (expected)
M.S. in Software Engineering (Advisor: Prof. Mingkui Tan)	Sep. 2018 - Jun. 2020
B.A. in Software Engineering	Sep. 2014 - Jun. 2018

Intern Experiences

Peng Cheng Laboratory	Shenzhen, China
Intern in Machine Vision Group	Sep. 2021 - present

Research Interests & Accomplishments

Research Interests	Neural Architecture Design for efficient models, Test-time Adaptation for model generalization.
Publications	My works have been published in several top-tier venues (CVPR, ICML, ICLR, NN and etc).
Academic Services	Served as the reviewer for top-tier conferences (ICML, NeurIPS, ICLR, CVPR, ICCV, ECCV).

Publications

- [1] Contrastive Neural Architecture Search with Neural Architecture Comparators (CVPR 2021)
Yaofu Chen, Yong Guo, Qi Chen, Minli Li, Wei Zeng, Yaowei Wang, Mingkui Tan
- [2] Breaking the Curse of Space Explosion: Towards Efficient NAS with Curriculum Search (ICML 2020)
Yaofu Chen*, Yong Guo*, Yin Zheng, Peilin Zhao, Jian Chen, Junzhou Huang, Mingkui Tan
- [3] Automatic Subspace Evoking for Efficient Neural Architecture Search (Submitted to TNNLS)
Yaofu Chen, Yong Guo, Daihai Liao, Fanbing Lv, Hengjie Song, Mingkui Tan
- [4] Boost Cloud-Edge Model Adaptation Performance via Selective Entropy Minimization and Distillation
Yaofu Chen, Shuaicheng Niu, Shouakai Xu, Hengjie Song, Mingkui Tan (Submitted to ICML)
- [5] Content-aware Convolutional Neural Networks (Neural Networks 2021)
Yong Guo, Yaofu Chen, Mingkui Tan, Kui Jia, Jian Chen, Jingdong Wang
- [6] Towards Stable Test-time Adaptation in Dynamic Wild World (ICLR 2023 oral)
Shuaicheng Niu, Jiaxiang Wu, Yifan Zhang, Zhiquan Wen, Yaofu Chen, Peilin Zhao, Mingkui Tan
- [7] Efficient Test-Time Model Adaptation without Forgetting (ICML 2022)
Shuaicheng Niu, Jiaxiang Wu, Yifan Zhang, Yaofu Chen, Shijian Zheng, Peilin Zhao, Mingkui Tan
- [8] Pareto-aware Neural Architecture Generation for Diverse Computational Budgets (CVPRW)
Yong Guo, Yaofu Chen, Yin Zheng, Qi Chen, Peilin Zhao, Jian Chen, Junzhou Huang, Mingkui Tan

Research Projects

Automatic Antenna Design via Machine Learning	Guangzhou. Jan. 2021. – Jan. 2022.
Led juniors to write proposals, including project objectives, research plan and methodology.	
Developed core algorithms for automatic antenna design using reinforcement learning techniques.	
Applications and Software Platform for Big Foundation Model	Shenzhen. Sep. 2021 - present
Proposed a cloud-edge collaborative model adaptation algorithm for out-of-distribution generalization.	
Designed a software interfaces/platform to efficiently utilize big pretrained foundation model for downstream tasks.	

Professional Skills

Communication	Excellent communication skills to present ideas to audiences w/o professional knowledge.
Collaboration	Effective collaboration with other researchers (both supervised by seniors and lead juniors).
Programming	Strong programming skills in Python, particularly with popular framework PyTorch.

Awards and Honors

School Scholarship of South China University of Technology	Guangzhou. Sep. 2020.
Excellent Science Technology Academic Paper Selection	Shenzhen. Jan. 2023.
Oral Presentation at International Conference on Learning Representations (ICLR)	Rwanda. Feb. 2023.
Doctoral Consortium and Travel Award by CVPR	Canada. Mar. 2023.