

# Yaofu Chen | Curriculum Vitae

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## Education

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

## Intern Experiences

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

## Research Interests & Accomplishments

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

## 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, Jiayang Wu, Yifan Zhang, Zhiquan Wen, *Yaofu Chen*, Peilin Zhao, Mingkui Tan
- [7] **Efficient Test-Time Model Adaptation without Forgetting** (*ICML 2022*)  
Shuaicheng Niu, Jiayang 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

<b>Automatic Antenna Design via Machine Learning</b>	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.	
<b>Applications and Software Platform for Big Foundation Model</b>	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

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

## Awards and Honors

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