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## Lingyun Yang

Email: lyangbk@cse.ust.hkGitHub: mental2008LinkedIn: lingyun-yang-b2881b18aPhone: (+852) 9719-0933Office: CYT 3007, HKUSTWeb: https://www.cse.ust.hk/~lyangbk/

Personal profile Ph.D. Student

Department of Computer Science and Engineering Hong Kong University of Science and Technology

Clear Water Bay, Kowloon, Hong Kong

Research interests Machine learning for systems, cloud computing, resource management for

large-scale clusters

Education Hong Kong University of Science and Technology (HKUST)

Department of Computer Science and Engineering

Ph.D. in Computer Science and Engineering 2020 – Present

Advisor: Prof. Wei Wang

South China University of Technology (SCUT)

School of Computer Science and Engineering

B.Eng. in Computer Science and Technology 2016 – 2020

♦ Studied at All-English Innovation Class (*GPA*: 3.82/4)

Professional Alibaba Group Hangzhou, China

experience Research Intern, Cloud Native Group Dec. 2020 - Present

♦ Mentor: Jian He and Yinghao Yu

♦ Built Morphling, an auto-configuration framework for machine learning model serving on Kubernetes, with intelligent algorithms to quickly find the optimal configuration. [https://github.com/kubedl-io/morphling]

**Hong Kong University of Science and Technology** Clear Water Bay,

Kowloon, Hong Kong

Research/Teaching Assistant, System Algorithm Group Sept. 2020 - Present

Microsoft Research Asia Beijing, China

Research Intern, Innovation Engineering Group Jul. 2019 - Jun. 2020

Mentors: Lewei Lu and Chong Li

♦ Applied multiple latest attention mechanisms to face recognition models, integrated with knowledge distillation, built in CNTK.

♦ Built a neural architecture search pipeline for face recognition tasks.

♦ Designed a symmetric padding pooling layer with self-attention which can be easily integrated into any model structure, achieve the state-of-the-art performance and improve the robustness to various pertubations.

Publications	♦ Luping Wang*, <b>Lingyun Yang</b> *, Yinghao Yu, Wei Wang, Bo Li, Xianchao Sun, Jian He, and Liping Zhang, "Morphling: Fast, Near-Optimal Auto-Configuration for Cloud-Native Model Serving", to appear in the <i>Proceedings of ACM Symposium on Cloud Computing</i> ( <b>SoCC '21</b> ), Seattle, WA, November 2021. (*Co-first authors in alphabetical order)	
Honors and	♦ Merit Student & Excellent Student Cadre	Nov. 2019
scholarships	♦ National Scholarship	Oct. 2019
	<ul> <li>Silver Medal, 2019 ICPC China Xi'an National Invitational Programming Contest</li> </ul>	May 2019
	⋄ First Prize, 17th Guangdong Collegiate Programming Contest	May 2019
	♦ Silver Medal, 2019 Sanqi Mutual Entertainment Cup Programming Contest	Apr. 2019
	♦ Gold Medal, 2019 South China University of Technology ACM Programming Contest	Apr. 2019
	♦ Bronze Medal, 2018 ACM-ICPC Asia Xuzhou Regional Contest	Oct. 2018
	♦ Silver Medal, 1st Xiao Mi Collegiate Programming Contest	Sept. 2018
	♦ Gold Medal, 2018 South China University of Technology ACM	Apr. 2018
	Programming Contest	
	♦ The First Prize Scholarship	Nov. 2017
	♦ Bronze Medal, 2017 ACM-ICPC Asia Xian Regional Contest	Oct. 2017
	♦ Gold Medal, 12th China Youth Robot Competition	Jul. 2012
	♦ Champion, 2012 RoboCup Youth Robot World Cup China	Mar. 2012
	Division Selection Competition	
Teaching activities	<b>Hong Kong University of Science and Technology</b> Clear Water Bay, Kowloon, Hong Kong	
	Teaching Assistant, Department of Computer Science and Engineering	
	♦ COMP 4651: Cloud Computing and Big Data Systems	Fall 2021
	♦ COMP 4651: Cloud Computing and Big Data Systems	Spring 2021
Other experience	ACM-ICPC Competition Group	
	Group Member & Team Leader	2016 - 2019
	♦ Coach: Prof. Chuhua Xian	
	♦ Major domains: Dynamic Programming, Number Theory, Data Structure, etc.	
	Machine Learning & Cybernetics Research Group	
	Undergraduate Research Assistant	2017 - 2019
	⋄ Advisor: Prof. Patrick Chan	
	♦ Compeleted research projects: Fundus Stitching, Tableware Recognition and	
	NN Visualization.	
	Tencent Innovation Club	
	Vice Chairman	2018 - 2019

♦ Led the largest student club at the School of Computer Science and Engineering in SCUT, sponsored by Tencent Technology (Shenzhen) CO., LTD.

## **ByteDance Summer Camp**

Beijing, China

Camper, Algorithm track

Aug. 2019

- ♦ Mentor: Dr. Yibo Zhu
- ♦ Totally 150 participants selected from more than 6k candidates.
- ⋄ Trained a large scale BERT Model by using Pipeline and Model Parallelism.
   International Conference on Machine Learning Chengdu, China and Cybernetics & International Conference on Wavelet Analysis and Pattern Recognition

Student helper Jul. 2018

Skills Programming Languages: C++, Python, Golang

Toolkits: Git, Languages: English (fluent), Mandarin (Native speaker)

Other interests Read various kinds of books, play basketball, workout at the gym, food lover.

In my spare time, I also write some blogs about interesting stuffs aperiodically.

Here is my personal blog (in Chinese): https://mental 2008.github.io/.