

Lingyun Yang

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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 GPU 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 experience

Alibaba Group

Hangzhou, China

Research Intern, Cloud Native Group

Dec. 2020 - Present

◊ Mentor: Jian He and Dr. Yinghao Yu

◊ Co-developed Morphling, an open-source auto-configuration framework for machine learning model serving on Kubernetes, with intelligent algorithms to quickly find the optimal configuration. [[website](#)][[code](#)]

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 perturbations.

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| Publications | ◇ Luping Wang*, Lingyun Yang* , 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 (SoCC ’21)</i> , Seattle, WA, November 2021. (*Co-first authors in alphabetical order) | |
| Honors and scholarships | ◇ Merit Student & Excellent Student Cadre | Nov. 2019 |
| | ◇ National Scholarship | Oct. 2019 |
| | ◇ Silver Medal, 2019 ICPC China Xi’an National Invitational Programming Contest | 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 Programming Contest | Apr. 2018 |
| | ◇ 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 Division Selection Competition | Mar. 2012 |
| Teaching activities | Hong Kong University of Science and Technology | Clear Water Bay, Kowloon, Hong Kong |
| | <i>Teaching Assistant, Department of Computer Science and Engineering</i> | |
| | ◇ 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 | |
| | <i>Group Member & Team Leader</i> | 2016 - 2019 |
| | ◇ Coach: Prof. Chuhua Xian | |
| | ◇ Major domains: Dynamic Programming, Number Theory, Data Structure, etc. | |
| | Machine Learning & Cybernetics Research Group | |
| | <i>Undergraduate Research Assistant</i> | 2017 - 2019 |
| | ◇ Advisor: Prof. Patrick Chan | |
| | ◇ Completed research projects: Fundus Stitching, Tableware Recognition and NN Visualization. | |
| | Tencent Innovation Club | |
| | <i>Vice Chairman</i> | 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, \LaTeX , Linux Shell, Qt, MySQL, Markdown

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://blog.yanglingyun.me/>.