

# Lingyun Yang

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## Personal profile

Ph.D. Student

Department of Computer Science and Engineering

The 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 experience

**Alibaba Group**

Hangzhou, China

*Research Intern*, Cloud Native Group

Dec. 2020 - Present

◊ Mentor: Jian He

**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.

## Honors and

◊ Merit Student & Excellent Student Cadre

Nov. 2019

|                     |  |                |
|---------------------|--|----------------|
| scholarships        | ◇ 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 | <b>Hong Kong University of Science and Technology</b> Clear Water Bay, Kowloon, Hong Kong  |                |
|                     | <i>Teaching Assistant, Department of Computer Science and Engineering</i>  |                |
|                     | ◇ COMP 4651: Cloud Computing and Big Data Systems  | Spring 2021    |
| Other experience    | <b>ACM-ICPC Competition Group</b>  |                |
|                     | <i>Group Member &amp; Team Leader</i>  | 2016 - 2019    |
|                     | ◇ Coach: Prof. Chuhua Xian   |                |
|                     | ◇ Major domains: Dynamic Programming, Number Theory, Data Structure, etc.  |                |
|                     | <b>Machine Learning &amp; Cybernetics Research Group</b>   |                |
|                     | <i>Undergraduate Research Assistant</i>  | 2017 - 2019    |
|                     | ◇ Advisor: Prof. Patrick Chan  |                |
|                     | ◇ Completed research projects: Fundus Stitching, Tableware Recognition and NN Visualization.   |                |
|                     | <b>Tencent Innovation Club</b>   |                |
|                     | <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. |                |
|                     | <b>ByteDance Summer Camp</b>   | Beijing, China |
|                     | <i>Camper, Algorithm track</i>   | 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.  |                |
|                     | <b>International Conference on Machine Learning</b>  | Chengdu, China |
|                     | <b>and Cybernetics &amp; International Conference on Wavelet Analysis and Pattern Recognition</b>  |                |

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|-----------------|--|
| Skills          | Programming Languages: C++, Python, Golang<br>Toolkits: Git, $\LaTeX$ , Linux Shell, Qt, MySQL, Markdown<br>Languages: English (fluent), Mandarin (Native speaker) |
| Other interests | Read various kinds of books, play basketball, workout at the gym, food lover.  |