

# 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	<b>Hong Kong University of Science and Technology (HKUST)</b> <i>Department of Computer Science and Engineering</i> Ph.D. in Computer Science and Engineering 2020 – Present ◊ Advisor: Prof. Wei Wang  <b>South China University of Technology (SCUT)</b> <i>School of Computer Science and Engineering</i> B.Eng. in Computer Science and Technology 2016 – 2020 ◊ Studied at All-English Innovation Class (GPA: 3.82/4)
Professional experience	<b>Alibaba Group</b> Hangzhou, China <i>Research Intern, Cluster Management Group</i> Dec. 2020 - Present ◊ Mentors: 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. [ <a href="#">paper</a> ][ <a href="#">code</a> ][ <a href="#">website</a> ]  <b>Hong Kong University of Science and Technology</b> Clear Water Bay, Kowloon, Hong Kong <i>Research/Teaching Assistant, System Algorithm Group</i> Sept. 2020 - Present  <b>Microsoft Research Asia (MSRA)</b> Beijing, China <i>Research Intern, Innovation Engineering Group (IEG)</i> 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.

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 (SoCC ’21)</i> , Seattle, WA, November 2021. (*Co-first authors in alphabetical order)	
Honors and scholarships	◇ Postgraduate Scholarship ◇ Star of Tomorrow Internship Award of Excellence ◇ Merit Student & Excellent Student Cadre ◇ National Scholarship ◇ Silver Medal, 2019 ICPC China Xi’an National Invitational Programming Contest ◇ First Prize, 17th Guangdong Collegiate Programming Contest ◇ Silver Medal, 2019 Sanqi Mutual Entertainment Cup Programming Contest ◇ Gold Medal, 2019 South China University of Technology ACM Programming Contest ◇ Bronze Medal, 2018 ACM-ICPC Asia Xuzhou Regional Contest ◇ Silver Medal, 1st Xiao Mi Collegiate Programming Contest ◇ Gold Medal, 2018 South China University of Technology ACM Programming Contest ◇ The First Prize Scholarship ◇ Bronze Medal, 2017 ACM-ICPC Asia Xian Regional Contest ◇ Gold Medal, 12th China Youth Robot Competition ◇ Champion, 2012 RoboCup Youth Robot World Cup China Division Selection Competition	2020 - Present, HKUST Jul. 2020, MSRA Nov. 2019, SCUT Oct. 2019, China May 2019 May 2019 Apr. 2019 Apr. 2019 Oct. 2018 Sept. 2018 Apr. 2018 Nov. 2017, SCUT Oct. 2017 Jul. 2012 Mar. 2012
Teaching activities	<b>Hong Kong University of Science and Technology</b> Kowloon, Hong Kong <i>Teaching Assistant, Department of Computer Science and Engineering</i> ◇ COMP 4651: Cloud Computing and Big Data Systems ◇ COMP 4651: Cloud Computing and Big Data Systems	Clear Water Bay,   Fall 2021 Spring 2021
Other experience	<b>ACM-ICPC Competition Group</b> <i>Group Member &amp; Team Leader</i> ◇ 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> ◇ Advisor: Prof. Patrick Chan ◇ Completed research projects: Fundus Stitching, Tableware Recognition and NN Visualization. <b>Tencent Innovation Club</b>	2016 - 2019    2017 - 2019

	<p><i>Vice Chairman</i> 2018 - 2019</p> <p>◊ Led the largest student club at the School of Computer Science and Engineering in SCUT, sponsored by Tencent Technology (Shenzhen) CO., LTD.</p> <p><b>ByteDance Summer Camp</b> Beijing, China</p> <p><i>Camper</i>, Algorithm track Aug. 2019</p> <p>◊ Mentor: Dr. Yibo Zhu</p> <p>◊ Totally 150 participants selected from more than 6k candidates.</p> <p>◊ Trained a large scale BERT Model by using Pipeline and Model Parallelism.</p> <p><b>ICMLC &amp; ICWAPR</b> Chengdu, China</p> <p><i>Student helper</i> Jul. 2018</p>
Skills	<p>Programming Languages: C++, Python, Golang</p> <p>Toolkits: Git, <math>\text{\LaTeX}</math>, Linux Shell, Qt, MySQL, Markdown</p> <p>Languages: English (fluent), Mandarin (Native speaker)</p>
Miscellaneous	<p>Read various kinds of books, play basketball, workout at the gym, food lover.</p> <p>In my spare time, I also write some blogs about interesting stuffs aperiodically.</p> <p>Here is my personal blog (in Chinese): <a href="https://blog.yanglingyun.me/">https://blog.yanglingyun.me/</a>.</p>