Lingyun Yang (杨凌云)

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Personal Profile	Ph.D. Candidate Department of Computer Science and Engineering Hong Kong University of Science and Technology Clear Water Bay, Kowloon, Hong Kong
Research Interests	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, Cluster Management Group   Dec. 2020 – Present

⋄ Mentors: Jian He and Dr. Yinghao Yu

⋄ Co-developed Morphling [C1], an open-source auto-configuration framework for machine learning model serving on Kubernetes, with intelligent algorithms to quickly find the optimal configuration. [code]

Microsoft Research Asia (MSRA)   Beijing, China

Research Intern, Innovation Engineering Group (IEG)   Jul. 2019 – Jun. 2020

Publications

[C2] Yongkang Zhang, Yinghao Yu, Wei Wang, Qiukai Chen, Jie Wu, Zuowei Zhang, Jiang Zhong, Tianchen Ding, Qizhen Weng, **Lingyun Yang**, Cheng Wang, Jian He, Guodong Yang, and Liping Zhang, "Workload Management in Alibaba Clusters: The Good, the Bad, and the Ugly," in the *Proceedings of ACM Symposium on Cloud Computing* (**SoCC '22**), San Francisco, CA, November 2022.

[C1] 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," in the *Proceedings of ACM Symposium on Cloud Computing* (**SoCC '21**), Seattle, WA, November 2021. (*Co-first authors in alphabetical order)

Honors and Scholarships		
◇ Postgraduate Scholarship	2020 – Present, HKUST
◇ Star of Tomorrow Internship Award of Excellence	Jul. 2020, MSRA
◇ Merit Student & Excellent Student Cadre	Nov. 2019, SCUT
◇ National Scholarship	Oct. 2019, China
◇ 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, SCUT
◇ 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

Academic Services

Artifact Evaluation Committee
◇ MLSys (2023)
External Reviewer
◇ INFOCOM (2022, 2023), ICDCS (2023), APSys (2021), MSN (2021), Qshine (2020)

Teaching Activities

Hong Kong University of Science and Technology Clear Water Bay, Kowloon, Hong Kong
Teaching Assistant, Department of Computer Science and Engineering
◇ CSIT6000O: Advanced Cloud Computing (Spring 2022, Spring 2023)
◇ COMP4651: Cloud Computing and Big Data Systems (Spring 2021, Fall 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: <u>Prof. Patrick Chan</u>

⋄ Completed research projects: Fundus Stitching, Tableware Recognition and NN Visualization.

Tencent Innovation Club

Vice Chairman 2018 − 2019

⋄ Led the largest student club in SCUT CSE, sponsored by Tencent.

ByteDance Summer Camp Beijing, China

Camper, Algorithm track Aug. 2019

⋄ Mentor: Dr. Yibo Zhu

⋄ Totally 150 participants selected from more than 6k candidates.

ICMLC & ICWAPR Chengdu, China

Student helper Jul. 2018

Skills   Programming Languages: Golang, C++, Python

Toolkits: Kubernetes, Git, LaTeX, Linux Shell, Qt, MySQL, MarkDown

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

Miscellaneous Play basketball & badminton, workout at the gym, food lover.