

Qinghao Hu

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EDUCATION

Nanyang Technological University, Singapore <i>Ph.D. student in Computer Science</i> Supervisor: Prof. Zhang Tianwei and Prof. Wen Yonggang	Aug. 2020 - Aug. 2024
National University of Singapore, Singapore <i>Master in Electrical Engineering</i>	Jan. 2019 - Dec. 2019
Zhejiang University, China <i>Bachelor in Electrical Engineering</i>	Sep. 2014 - Jun. 2018

RESEARCH INTEREST

- Cluster Resource Management and Scheduling
- Machine Learning for Systems
- Automated Deep Learning Systems

PUBLICATION

Lucid: A Non-Intrusive, Scalable and Interpretable Scheduler for Deep Learning Training Jobs
Qinghao Hu*, Meng Zhang*, Peng Sun, Yonggang Wen, Tianwei Zhang
[ASPLOS '23] Architectural Support for Programming Languages and Operating Systems

Primo: Practical Learning-Augmented Systems with Interpretable Models
Qinghao Hu, Harsha Nori, Peng Sun, Yonggang Wen, Tianwei Zhang
[ATC '22] USENIX Annual Technical Conference (Accept Rate: 64/393=16.3%)

Characterization and Prediction of Deep Learning Workloads in Large-Scale GPU Datacenters
Qinghao Hu, Peng Sun, Shengen Yan, Yonggang Wen, Tianwei Zhang
[SC '21] International Conference for High Performance Computing, Networking, Storage, and Analysis

Deep Learning Workload Scheduling in GPU Datacenters: Taxonomy, Challenges and Vision
Wei Gao*, **Qinghao Hu***, Zhisheng Ye*, Peng Sun, et al.
[Preprint] Submitted to ACM Computing Surveys

PROFESSIONAL SERVICE

[OSDI '22] USENIX Symposium on Operating Systems Design and Implementation AE Committee Member
[ATC '22] USENIX Annual Technical Conference AE Committee Member
[EuroSys '22] EuroSys Conference AE Committee Member
[SOSP '21] ACM Symposium on Operating Systems Principles AE Committee Member

INVITED TALK

Scheduling in Large-Scale GPU Datacenters <i>National University of Singapore</i>	Jan. 2022
Cluster Scheduling for Deep Learning <i>S-Lab for Advanced Intelligence</i>	Apr. 2021

HONORS

Best Undergraduate Thesis Award of ISEE College	2018
Outstanding College Graduate of Zhejiang University	2018
National “TI CUP” Electronic Design Competition The Second Prize	2017
The National Talent Training Base The Third Prize Scholarship	2016
Outstanding Students The Second-Class Scholarship	2015