Hu Qinghao

S-Lab for Advanced Intelligence

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EDUCATION

Nanyang Technological University, Singapore *Aug. 2020 - Aug. 2024*
Ph.D. student in Computer Science
Supervisor: Prof. Zhang Tianwei and Prof. Wen Yonggang

National University of Singapore, Singapore *Jan. 2019 - Dec. 2019*
Master in Electrical Engineering

Zhejiang University, China *Sep. 2014 - Jun. 2018*
Bachelor in Electrical Engineering

RESEARCH INTEREST

- Cluster Resource Management and Scheduling

- Machine Learning for Systems

- Automated Deep Learning Systems

PUBLICATION

Lucid: Non-Intrusive, Scalable and Interpretable Deep Learning Job Scheduling
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*

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 *Jan. 2022*
National University of Singapore

Cluster Scheduling for Deep Learning *Apr. 2021*
S-Lab for Advanced Intelligence

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*