

Hu Qinghao

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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

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

WORK EXPERIENCE

SenseTime-NTU Joint Lab, Singapore <i>Research Associate</i> Mentor: Dr. Peng Sun	Aug. 2020 - Now
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PUBLICATION

Rotom: Interpretable and Non-Intrusive Deep Learning Job Scheduling
Qinghao Hu, Meng Zhang, Peng Sun, Yonggang Wen, Tianwei Zhang
[SC '22] International Conference for High Performance Computing, Networking, Storage, and Analysis

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
National University of Singapore

Jan. 2022

Cluster Scheduling for Deep Learning
S-Lab for Advanced Intelligence

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