

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	<i>Aug. 2020 - Aug. 2024</i>
National University of Singapore, Singapore <i>Master in Electrical Engineering</i>	<i>Jan. 2019 - Dec. 2019</i>
Zhejiang University, China <i>Bachelor in Electrical Engineering</i>	<i>Sep. 2014 - Jun. 2018</i>

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	<i>Aug. 2020 - Now</i>
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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 <i>National University of Singapore</i>	<i>Jan. 2022</i>
Cluster Scheduling for Deep Learning <i>S-Lab for Advanced Intelligence</i>	<i>Apr. 2021</i>

HONORS

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