

Hu Qinghao

S-Lab for Advanced Intelligence
Nanyang Technological University
ABN-02b-11, 61 Nanyang Avenue, Singapore 637335

E-Mail: huqinghao@gmail.com
Tel.: (+65) 8305 3277
Homepage: <https://tonyhao.xyz>

EDUCATION

Nanyang Technological University, Singapore <i>Ph.D. student in Computer Science</i> Supervisor: Prof. Zhang Tianwei and Prof. Wen Yonggang	<i>Aug. 2020 - Now</i> <i>GPA: 4.7 / 5.0</i>
National University of Singapore, Singapore <i>Master in Electrical Engineering</i>	<i>Jan. 2019 - Dec. 2019</i> <i>GPA: 4.7 / 5.0</i>
Zhejiang University, China <i>Bachelor in Electrical Engineering</i>	<i>Sept. 2014 - June. 2018</i> <i>GPA: 3.6 / 4.0</i>

RESEACH INTERESTS

- Deep Learning System
- Large-scale Cluster Resource Management and Scheduling
- Automated Deep Learning

PUBLICATIONS

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

PROJECT EXPERIENCES

Designing Efficient Scheduling Algorithms for Deep Learning <i>NTU Research Project</i> Aim to develop an efficient GPU cluster scheduler tailored for distributed deep learning (DL) training jobs, which efficiently schedules training jobs to improve cluster utilization, support research groups with different ecosystems, and reduce job completion time	<i>Sept. 2020 - Present</i>
Neural Network Based Nanoscale Devices Modeling <i>NUS Research Project</i> Developed a novel neural network based compact model of carbon nanotube transistors for simulation and built a inverse design system for physical parameters prediction, mainly using bayesian regularization.	<i>Feb. 2019 - Dec. 2019</i>

AWARDS / HONORS

Zhejiang University Outstanding College Graduates	2018
Best Undergraduate Thesis Award of ISEE College	2018
“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
Zhejiang Physics Innovation Competition The Third Prize	2015