Guodong Liu

✉ liuguodong19z at ict.ac.cn • 🌐 lgd.gd

Institute of Computing Technology, Chinese Academy of Sciences

Education

Institute of Computing Technology, CAS	**Sept 2019 – Present**
Ph.D Candidate in Computer Systems Organization	*Beijing, China*
University of Chinese Academy of Sciences	**Sept 2015 – June 2019**
B.Eng in Computer Science and Technology (GPA 3.71/4.0)	*Beijing, China*
Carnegie Mellon University	**Jan 2018 – May 2018**
Visiting Student at School of Computer Science	*Pittsburgh, USA*

Research Experience

Microsoft Research Asia	**March 2021 – Sept 2022**
○ Research intern at System Research Group.	
Institute of Computing Technology, CAS	**June 2018 – May 2019**
○ Research assistant at Center for Advanced Computer Systems.	

Publications

[EuroSys'24] Aceso: Efficient Parallel DNN Training through Iterative Bottleneck Alleviation.
○ **Guodong Liu**, Youshan Miao, Zhiqi Lin, Xiaoxiang Shi, Saeed Maleki, Fan Yang, Yungang Bao, Sa Wang.

[PACT'21] SEER: A Time Prediction Model for CNNs from GPU Kernel's View.
○ **Guodong Liu**, Sa Wang, and Yungang Bao.

[ASPLOS'22] Breaking the Computation and Communication Abstraction Barrier in Distributed Machine Learning Workloads.
○ Abhinav Jangda, Jun Huang, **Guodong Liu**, Amir Hossein Nodehi Sabet, Saeed Maleki, Youshan Miao, Madanlal Musuvathi, Todd Mytkowicz, and Olli Saarikivi.

[preprint] SuperScaler: Supporting Flexible DNN Parallelization via a Unified Abstraction.
○ Zhiqi Lin, Youshan Miao, **Guodong Liu**, Xiaoxiang Shi, Quanlu Zhang, Fan Yang, Saeed Maleki, Yi Zhu, Xu Cao, Cheng Li, Mao Yang, Lintao Zhang, Lidong Zhou

Technical Skills

Machine Learning Frameworks
○ TensorFlow, PyTorch.
○ Received developer certification from Cambricon Technology in the course Intelligent Computing Systems.

Teaching

Operating System	**Fall 2022**
Teaching assistant	*UCAS*

Awards

National Scholarship for PhD Students	**2023**
First-class Academic Scholarship, ICT	**2023**
Merit Student, ICT	**2022**
Outstanding Guest Student, ICT	**2019**
Undergraduate Scholarship, UCAS	**2017**