Wenyan Chen

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https://chenwenyan.github.io

Education

Ph.D. **University of Macau**, Computer Science — Aug. 2021 – Now
- *Supervisors:* Huanle Xu and Kejiang Ye
- *Research Topic:* GPU multiplexing, Systems for LLMs

M.Eng **Northeast Normal University**, Software Engineering — Sep. 2016 – Jul. 2019
- *Supervisor:* Chengzhong Xu
- *Research Topic:* Resource Management, Job Scheduling

B.Eng **Zhengzhou University**, Software Engineering — Sep. 2012 – Jul. 2016
- *GPA Rank:* Top 10%
- *Coursework:* Computer Network, Data Structure, Operating System

Publications

Multiplexing Dynamic Deep Learning Workloads with SLO-awareness in GPU Clusters. — EuroSys 2025
Wenyan Chen, Chengzhi Lu, Huanle Xu, Kejiang Ye, Chengzhong Xu.

Interference-aware Multiplexing for Deep Learning in GPU Clusters: A Middleware Approach. — SC 2023
Wenyan Chen, Zizhao Mo, Huanle Xu, Kejiang Ye, Chengzhong Xu.

SMIless: Serving DAG-based Inference with Dynamic Invocations under Serverless Computing. — SC 2024
Chengzhi Lu, Huanle Xu, Yudan Li, ***Wenyan Chen***, Kejiang Ye, Chengzhong Xu.

RPTCN: Resource prediction for high-dynamic workloads in clouds based on deep learning. — CLUSTER 2021
Wenyan Chen, Chengzhi Lu, Kejiang Ye, Yang Wang, Chengzhong Xu.

Interference analysis of co-located container workloads: a perspective from hardware performance counters. — JCST 2020
Wenyan Chen, Kejiang Ye, Chengzhi Lu, Dongdai Zhou, Chengzhong Xu.

Co-locating online workload and offline workload in the cloud: An interference analysis. — HPCC 2019
Wenyan Chen, Kejiang Ye, Chengzhong Xu.

How does the workload look like in production cloud? analysis and clustering of workloads on alibaba cluster trace. — ICPADS 2018
Wenyan Chen, Kejiang Ye, Yang Wang, Guoyao Xu, Chengzhong Xu.

Ongoing Work

FedSUV: Validity and Utility-guided Client Selection for Federated Learning. — IJCAI 2025 (*Under Review*)
Xiaosong Chen, ***Wenyan Chen***, Yuanhang Chen, Huanle Xu.

FedDance: Efficient Participant Selection for Federated Learning in Highly Dynamic Environments. — SIGMOD 2026 (*Major Revision*)
Yuanhang Chen, Xiaosong Chen, ***Wenyan Chen***, Huanle Xu.

Experience

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China
Research Assistant Jul 2019 – Jul 2021

- Resource management based on deep learning
- Job scheduling in container-based cloud platform

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China
Visiting Student Mar 2018 – Jun 2019

- Resource allocation modeling and characteristic analysis of cloud cluster trace
- Interference characteristic analysis of co-located workload patterns in container cloud platforms

Honors

Outstanding Student Award of Dean Scholarship in SIAT, CAS. 2018-2023

Outstanding Graduate of Northeast Normal University. 2019

Excellent Postgraduate of Northeast Normal University. 2018

First Prize of ACM Programming Competition of Zhengzhou University. 2015

Technologies

Languages: Python, Go, Latex, JAVA, C

Technologies: Kubernetes, Docker, CUDA