

# Wenyan Chen

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## CONTACT INFORMATION

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University of Macau

## EDUCATION

**University of Macau**, China, (Aug. 2021 – Present)

PhD, Computer Science  
Advisors: Prof. Huanle Xu, and Prof. Kejiang Ye

**Northeast Normal University**, China, (Sep. 2016 - Jul. 2019)

M.S., Software Engineering  
Advisor: Prof. Chengzhong Xu, Dean of FST in University of Macau

**Zhengzhou University**, China, (Sep. 2012 - Jun. 2016)

B.S., Computer Science

## PUBLICATIONS

[EuroSys'25] Wenyan Chen, Chengzhi Lu, Huanle Xu, Kejiang Ye, and Cheng-Zhong Xu. Multiplexing Dynamic Deep Learning Workloads with SLO-awareness in GPU Clusters.

[SC'24] Chengzhi Lu, Huanle Xu, Yudan Li, Wenyan Chen, Kejiang Ye, and Chengzhong Xu. SMIless: Serving DAG-based Inference with Dynamic Invocations under Serverless Computing.

[SC'23] Wenyan Chen, Zizhao Mo, Huanle Xu, Kejiang Ye, and Chengzhong Xu. Interference-aware Multiplexing for Deep Learning in GPU Clusters: A Middleware Approach.

[CLUSTER'21] Wenyan Chen, Chengzhi Lu, Kejiang Ye, Yang Wang, Chengzhong Xu. RPTCN: Resource Prediction for High-dynamic Workloads in Clouds based on Deep Learning.

[JCST'20] Wenyan Chen, Kejiang Ye, Chengzhi Lu, Dongdai Zhou, Chengzhong Xu. Interference analysis of co-located container workloads: a perspective from hardware performance counters.

[HPCC'20] Guomei Shi, Lili, Jun Wang, Wenyan Chen, Kejiang Ye, Chengzhong Xu. HySync: Hybrid federated learning with effective synchronization.

[HPCC'19] Wenyan Chen, Kejiang Ye, Chengzhong Xu. Co-locating online workload and offline workload in the cloud: An interference analysis.

[ICPADS'19] Chengzhi Lu, Kejiang Ye, Wenyan Chen, Chengzhong Xu. ADGS: Anomaly Detection and Localization based on Graph Similarity in Container-based Clouds.

[ICPADS'18] Wenyan Chen, Kejiang Ye, Yang Wang, Guoyao Xu, Chengzhong Xu. How does the workload look like in production cloud? analysis and clustering of workloads on alibaba cluster trace.

## RECENT RESEARCH PROJECTS

### System optimization for DL applications in GPU clusters

- Enhance the performance of DL applications from the perspective of system optimization.
- Combine task placement and GPU multiplexing to maximize resource efficiency.

### Resource allocation and interference modeling for hybrid tasks in large-scale clusters

- ML-based resource allocation for cloud clusters.
- Precise interference quantification of hybrid tasks in large-scale clusters.

ACADEMIC EXPERIENCE	<b>Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences</b>	
	Assistant Engineer	Jul. 2019 - Jul. 2021
	<ul style="list-style-type: none"> <li>• Improved resource usage prediction accuracy by upto 89% by implementing a TCN-based prediction algorithm</li> <li>• Designed efficient task scheduling policies based on interference-aware analysis</li> </ul>	
	<b>Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences</b>	
	Visting Student	Mar. 2018 - Jun. 2019
	<ul style="list-style-type: none"> <li>• Quantified the interference from the micro-architecture level of hybrid tasks</li> <li>• Analyzed and modeled the performance of hybrid tasks in production cloud clusters</li> </ul>	
HONORS AND AWARDS	Student Travel Grant of EuroSys 2025.	2025
	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
SERVICES	Web Chair of HDIS 2023	2023
	Teaching Assistant of Human-computer interaction, University of Macau	2021
SKILLS	Python, GO, Git, LaTeX, Java Kubernetes, Docker, CUDA	