



## Personal

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Graduate School: TianJin University

Major: Computer Application Technology

Graduation date: 2024.03

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## Education

- **2013.09-2017.06** Bachelor' degree at Yanshan University, majored in Information and Computing Science
- **2017.09-2019.06** Master' degree at Tianjin University, majored in Software Engineering
- **2013.09-2017.06** Doctor' degree at Tianjin University, majored in Computer Application Technology

## Research

- His research interests mainly focus on low-entropy cloud computing and serverless computing, including the resource management and task scheduling in large-scale datacenters, performance optimization on microservices, workload characterization and benchmark analysis, and high throughput serverless frameworks design. His research work has been published in Eurosys, SC, ASPLOS, ATC, TPDS, TOCS in the past three years. He also received the Best Paper Award Candidate in SC 2021. His publications have been cited and downloaded more than 12,000 times.

## Honors & Awards

- National Inspirational Scholarship in 2015
- Excellent Graduate of Yanshan University 2017
- Advanced Individual Technological Innovation Award in Tianjin University, 2023
- Gold Award of the Ninth National Internet+ Competition in Tianjin Industrial Track Group

## Professional

- **2022.12-2023.05** Internship in Huawei Cloud Computing Corporation, China
- **2024.03-2024.04** Internship in State Cloud Computing Corporation, China
- **2023.5-Now** Senior Employee in Beijing Research Centre of China telecom Corporation

## Publications

- Yanan Yang, Laiping Zhao, Yiming Li, Shihao Wu, Yuechan Hao, Yuchi Ma, Keqiu Li: Flame: A Centralized Cache Controller for Serverless Computing. ASPLOS (4) 2023: 153-168.
- Yiming Li, Laiping Zhao, Yanan Yang, Wenyu Qu: Rethinking Deployment for Serverless Functions: A Performance-First Perspective. SC 2023: 67:1-67:14.
- Laiping Zhao, Yushuai Cui, \*Yanan Yang, Keqiu Li, Yungang Bao: Component-distinguishable Co-location and Resource Reclamation for High-throughput Computing. TOCS 2023.

## Publications

- Yanan Yang, Laiping Zhao, Yiming Li, Huanyu Zhang, Jie Li, Mingyang Zhao, Xingzhen Chen, Keqiu Li: INFless: A Native Serverless System for Low-latency, High-throughput Inference. ASPLOS 2022: 768-781.
- Xiangyu Kong, Xuesong Gao, Shibao Pan, Yizhi Zhou, Yanan Yang, Laiping Zhao, Heng Qi: TailCmp - A Tail Latency Evaluation Solution of Public Cloud and Labeled von Neumann Architecture based Cloud Prototype.
- Yanan Yang, Xiangyu Kong, Laiping Zhao, Heng Qi, Keqiu Li: SDCBench: A Benchmark Suite for Workload Colocation and Evaluation in Datacenters. Intelligent Computing, 2022: 9810691, 2022.
- Jie Li, Laiping Zhao, Yanan Yang, Kunlin Zhan, Keqiu Li: Tetris: Memory-efficient Serverless Inference through Tensor Sharing. USENIX Annual Technical Conference 2022.
- Laiping Zhao, Yanan Yang, Yiming Li, Xian Zhou, Keqiu Li: Understanding, predicting and scheduling serverless workloads under partial interference. SC 2021: 22.
- Laiping Zhao, Yanan Yang, Ali Munir, Alex X. Liu, Yue Li, Wenyu Qu: Optimizing Geo-Distributed Data Analytics with Coordinated Task Scheduling and Routing. IEEE Transactions on Parallel Distributed Systems. 31(2): 279-293 (2020).
- Laiping Zhao, Yanan Yang, Kaixuan Zhang, Xiaobo Zhou, Tie Qiu, Keqiu Li, Yungang Bao: Rhythm: component-distinguishable workload deployment in datacenters. EuroSys 2020: 19:1-19:17
- Yanan Yang, Laiping Zhao, Zhigang Li, Lihai Nie, Peiqi Chen, Keqiu Li: ElaX: Provisioning Resource Elastically for Containerized Online Cloud Services. HPCC/SmartCity/DSS 2019: 1987-1994.
- Yue Cao, Laiping Zhao, Rongqi Zhang, Yanan Yang, Xiaobo Zhou, Keqiu Li: Experience-Availability Analysis of Online Cloud Services using Stochastic Models. Networking 2018: 478-486.

## About me

- Easy-going and congenial, with a strong sense of responsibility and goodteam-spirit.
- Passionate research on distributed systems and architecture, prefer exploring new things and novel ideas.
- Having a wide range of hobbies, including English read/writing, sports like basketball and city-walk, online games.
- Very adaptable and good at learning.