

# MING LI

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## EDUCATION

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### Master in Computer Systems Organization

Sep 2020 – Jun 2023

*Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China*

**Thesis:** [The Architecture Design and Optimization of Service Mesh Based on DPU\(Data Processing Unit\)](#)

Advisor: [Guihai Yan](#)

### Bachelor in Software Engineering

Sep 2014 – Jun 2020

*School of Software Engineering, Tianjin University, Tianjin, China*

Advisor: Youmeng Li

## EXPERIENCE

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### YUSUR Technology Co., Ltd. Beijing, China

June 2023 – Present

*Cloud-native Fundamental Software Group, Software Engineer*

Manager: Mingliang Huang

Brief introduction:

- Designed and developed the message transmission based on the proxy, Envoy, for proprietary RPC protocol
- Optimized the end-to-end latency of data transmission

### Institute of Computing Technology, CAS. Beijing, China

Mar 2022 – May 2023

*State Key Laboratory of Computer Architecture, postgraduate*

Mentor: Guihai Yan

Brief introduction: Researched on building the service mesh based on DPU

### Institute of Computing Technology, CAS. Beijing, China

June – Dec 2021

*State Key Laboratory of Computer Architecture, postgraduate*

Mentor: Wenyan Lu

Brief introduction: Participated in the design of hardware assistant virtualization for DPU based on SRIOV

## HONORS AND AWARDS

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Outstanding Scholarship of Institute of Computing Technology

2022

The Second Prize Winner in [Customized Computing Challenge](#)

2021

## PUBLICATIONS

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**Ming Li**, Wenyan Lu, Hanyue Lin, Jingya Wu, Yu Zhang, Guihai Yan. [FlatProxy: A DPU-centric Service Mesh Architecture for Hyperscale Cloud-native Application](#). [submitted to IEEE Transactions on Computers in June 2023, now in review]

Haishuang Fan, **Ming Li**, Jingya Wu, Wenyan Lu, Xiaowei Li, Guihai Yan. [BitColor: Accelerating Large-Scale Graph Coloring on FPGA with Parallel Bit-Wise Engines](#). Proceedings of the 52nd International Conference on Parallel Processing. 2023.

### White Paper

Guihai Yan, Wenyan Lu, Jinya Wu, Hao Kong, Weiyue Zhao, Haishuang Fan, Yunkun Liao, Yujun Zhang, **Ming Li**, Yan Chen, Yu Zhang, Xiaofei Yuan, Huimin Cui. [The technical White Paper of Data Processing Unit](#). Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China. 2021. [In Chinese]

GuiHai Yan, Wenyan Lu, Yujun Zhang, Jinya Wu, Hao Kong, Weiyue Zhao, Haishuang Fan, Yunkun Liao, **Ming Li**, HanYue Lin, Liyun Cheng, Shuai Gu, Mingliang Huang, et al. [DPU Benchmark Methodology and Implementation](#). Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China. 2022. [In Chinese]