

Minchen Yu

PRESENT POSITION	PhD Candidate Dept. of Computer Science and Engineering Hong Kong University of Science and Technology	Phone: +852-5266-3725 Email: myuaj@cse.ust.hk Web: https://mincyu.github.io
EDUCATION	Hong Kong University of Science and Technology , Hong Kong SAR, China <i>Department of Computer Science and Engineering</i> ◇ Ph.D. , Computer Science and Engineering September 2018 – Present ◇ <i>Supervisor</i> : Prof. Wei Wang Nanjing University , Nanjing, Jiangsu, China <i>Software Institute</i> ◇ B.Eng. , Software Engineering September 2014 – July 2018 ◇ NJU Outstanding Graduate Award	
HONORS AND AWARDS	◇ Best Paper Runner-Up Award, IEEE ICDCS 2021 ◇ SENG Academic Award for Continuing PhD Students, HKUST 2020 ◇ Huawei PhD Fellowship, HKUST 2018 - 2021 ◇ University Outstanding Graduate, Nanjing University 2018 ◇ National Scholarship (top 2%) 2016 ◇ People's Scholarship for Academic Excellence, Nanjing University 2015, 2017 ◇ Excellent Student Awards, Nanjing University 2015	
PROFESSIONAL EXPERIENCE	Hong Kong University of Science and Technology , Hong Kong SAR, China <i>Research/Teaching Assistant</i> January 2018 – Present Alibaba Cloud , Hangzhou, China <i>Research Intern</i> December 2021 – Present Huawei Hong Kong Research Center , Hong Kong SAR, China <i>Research Intern</i> October 2020 – March 2021 Morgan Stanley IT Department , Shanghai, China <i>Software Development Engineer (intern)</i> July – September 2017	
PUBLICATIONS	Conference Papers (in reverse chronological order) [C6] Minchen Yu , Tingjia Cao, Wei Wang, Ruichuan Chen, “Following the Data, Not the Function: Rethinking Function Orchestration in Serverless Computing,” accepted to appear in the <i>Proceedings of the 20th USENIX Symposium on Networked Systems Design and Implementation (NSDI '23)</i> , Boston, MA, April 2023.	

[C5] **Minchen Yu**, Zhifeng Jiang, Hok Chun Ng, Wei Wang, Ruichuan Chen, Bo Li, “Gillis: Serving Large Neural Networks in Serverless Functions with Automatic Model Partitioning,” in the *Proceedings of the 41st IEEE International Conference on Distributed Computing Systems (ICDCS’21)*, Virtual Conference, July 2021. (**Best Paper Runner Up**)

[C4] Huangshi Tian, **Minchen Yu**, Wei Wang, “CrystalPerf: Resource-Centric Performance Characterization for Dataflow Computation,” in the *proceedings of USENIX Annual Technical Conference (ATC’21)*, Virtual Conference, July 2021.

[C3] **Minchen Yu**, Yinghao Yu, Yunchuan Zheng, Baichen Yang, Wei Wang, “RepBun: Load-Balanced, Shuffle-Free Cluster Caching for Structured Data,” in the *proceedings of IEEE INFOCOM’20*, Virtual Conference, July 2020.

[C2] Chengliang Zhang, **Minchen Yu**, Wei Wang, Feng Yan, “MARk: Exploiting Cloud Services for Cost-Effective, SLO-Aware Machine Learning Inference Serving,” in the *proceedings of USENIX Annual Technical Conference (ATC’19)*, Renton, WA, July 2019.

[C1] Huangshi Tian, **Minchen Yu**, Wei Wang, “Continuum: A Platform for Cost-Aware, Low-Latency Continual Learning,” in the *proceedings of ACM Symposium on Cloud Computing (SoCC’18)*, Carlsbad, CA, October 2018.

Journal Article

[J1] Chengliang Zhang, **Minchen Yu**, Wei Wang, Feng Yan, “Enabling Cost-Effective, SLO-Aware Machine Learning Inference Serving on Public Cloud,” in *IEEE Transactions on Cloud Computing (TCC)*, June 2020.

Preprint

[P1] **Minchen Yu**, Tingjia Cao, Wei Wang, Ruichuan Chen, “Restructuring Serverless Computing with Data-Centric Function Orchestration,” in *arXiv:2109.13492*, 2021.

TEACHING EXPERIENCE

Hong Kong University of Science and Technology (Teaching Assistant)

- ◇ COMP4651: *Cloud Computing and Big Data Systems* Spring 2021, Spring 2022
- ◇ COMP3511: *Operating System* Spring 2019

SKILLS

- ◇ Programming languages: C/C++, Python, Java
- ◇ ML frameworks: PyTorch, Tensorflow, MXNet
- ◇ Big data analytics: Spark, Hadoop, Alluxio
- ◇ GPU and CUDA programming