

Minchen Yu

PERSONAL INFO	Ph.D. Dept. of Computer Science and Engineering Hong Kong University of Science of Technology	Phone: +86-15651721686 Email: myuaj@connect.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 ◇ <i>Supervisor</i> : Prof. Wei Wang	September 2018 – August 2023
	Nanjing University , Nanjing, Jiangsu, China <i>Software Institute</i> ◇ B.Eng. , Software Engineering ◇ NJU Outstanding Graduate Award	September 2014 – July 2018
HONORS AND AWARDS	◇ HKUST RedBird Academic Excellence Award, HKUST ◇ Student Travel Grant, USENIX NSDI ◇ Best Paper Runner-Up Award, IEEE ICDCS ◇ SENG Academic Award for Continuing PhD Students, HKUST ◇ Huawei PhD Fellowship, HKUST ◇ University Outstanding Graduate, Nanjing University ◇ National Scholarship (top 2%) ◇ People's Scholarship for Academic Excellence, Nanjing University ◇ Excellent Student Awards, Nanjing University	2023 2023 2021 2020 2018 - 2021 2018 2016 2015, 2017 2015
PROFESSIONAL EXPERIENCE	Hong Kong University of Science and Technology , Hong Kong SAR, China <i>Research/Teaching Assistant</i> Alibaba Cloud , Hangzhou, China <i>Research Intern</i> Huawei Hong Kong Research Center , Hong Kong SAR, China <i>Research Intern</i> Morgan Stanley IT Department , Shanghai, China <i>Software Development Engineer (intern)</i>	January 2018 – Present December 2021 – June 2023 October 2020 – March 2021 July – September 2017
PUBLICATIONS	Conference Papers (in reverse chronological order)	

Inference via Model Swapping,” in *arXiv preprint arXiv:2306.03622*, June 2023. (under review)

[C6] **Minchen Yu**, Tingjia Cao, Wei Wang, Ruichuan Chen, “Following the Data, Not the Function: Rethinking Function Orchestration in Serverless Computing,” in the *Proceedings of the 20th USENIX Symposium on Networked Systems Design and Implementation (NSDI ’23)*, 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.

Workshop Paper

[W1] **Minchen Yu**, Tingjia Cao, Wei Wang, Ruichuan Chen, “Following the Data, Not the Function: Rethinking Function Orchestration in Serverless Computing,” extended abstract in the *proceedings of the 3rd Workshop On Resource Disaggregation and Serverless Computing (WORDS’22)*, Nov, 2022.

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.

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