Minchen Yu

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Position	Dept. of Computer Science and Engineering Hong Kong University of Science of Technology	Web: https://mincyu.github.io
Education	Hong Kong University of Science and Technology , Hong Kong SAR, China Department of Computer Science and Engineering	
	Ph.D., Computer Science and EngineeringSupervisor: Prof. Wei Wang	September 2018 – August 2023
	Nanjing University , Nanjing, Jiangsu, China Software Institute	
	B.Eng., Software EngineeringNJU Outstanding Graduate Award	September 2014 – July 2018
Honors and	♦ HKUST RedBird Academic Excellence Award, HKUST	2023
Awards	♦ Student Travel Grant, USENIX NSDI	2023
	♦ 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	ROFESSIONAL Hong Kong University of Science and Technology, Hong Kong SAR, China	
Experience	Post-Doctoral Fellow	September 2023 – Present
	Hong Kong University of Science and Technology, Hong Kong SAR, China	
	Research/Teaching Assistant	January 2018 – August 2023
	Alibaba Cloud, Hangzhou, China	
	Research Intern	December 2021 – June 2023
	Huawei Hong Kong Research Center, Hong Kong SAR, China	
	Research Intern	October 2020 – March 2021
	Morgan Stanley IT Department, Shanghai, China	
	Software Development Engineer (intern)	July – September 2017

PUBLICATIONS

Conference Papers (in reverse chronological order)

- [C7] **Minchen Yu**, Ao Wang, Dong Chen, Haoxuan Yu, Xiaonan Luo, Zhuohao Li, Wei Wang, Ruichuan Chen, Dapeng Nie, Haoran Yang, "FaaSwap: SLO-Aware, GPU-Efficient Serverless 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 IN-FOCOM*'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