Marc Chengliang Zhang

PRESENT POSITION

Ph.D Candidate
Department of Computer Science and Engineering
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RESEARCH INTERESTS

My interests cover **big data analytics systems** and **cloud computing**, with a special focus on **machine learning systems**. I enjoy identifying fundamental system design and performance issues in large-scale ML systems for both training and inference, and searching for general and efficient solutions.

EDUCATION

Hong Kong University of Science and Technology, Hong Kong SAR
Department of Computer Science and Engineering

◊ **Ph.D.**, Electrical and Computer Engineering September 2016 - present
◊ *Supervisor:* Wei Wang
◊ Hong Kong PhD Fellowship awardee, a prestigious and highly selective fellowship.

Harbin Institute of Technology, Harbin, China
School of Computer Science and Technology

◊ **B.Eng.** Software Engineering September 2012 - June 2016
◊ *Honors:* National Scholarship (Top 2%), People's Scholarship, Fuji Xerox Scholarship

PUBLICATIONS

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 2018 (20% acceptance rate).

Chengliang Zhang, Huangshi Tian, Wei Wang, Feng Yan, "Stay Fresh: Speculative Synchronization for Fast Distributed Machine Learning," in the *Proceedings of IEEE International Conference on Distributed Computing Systems (ICDCS'18)*, Vienna, Austria, July 2018 (20% acceptance rate).

Preprints

Chengliang Zhang, Minchen Yu, Wei Wang, Feng Yan, "Towards Cost-Effective and SLO-Aware Machine Learning Inference Serving on Public Cloud," to be submitted to *IEEE Transactions on Parallel and Distributed Systems*.

Yinghao Yu, Chengliang Zhang, Wei Wang, Jun Zhang, Khaled Letaief, "Towards Cost-Effective and SLO-Aware Machine Learning Inference Serving on Public Cloud," submitted to *IEEE Transactions on Cloud Computing*, currently under review.