

Yiyang Zhao

Major in Computer Science

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Education

- **Worcester Polytechnic Institute** Worcester, MA, USA
Ph.D., Computer Science 2019.08 - Now
- **Northeastern University** Boston, MA, USA
M.S., Computer Engineering 2015.01 - 2016.12
- **Xidian University** Xian, China
B.Eng., Electronic and Information Engineering 2010 - 2014

Research Interests

1. **Auto Machine Learning(Auto-ML)**: Monte Carlo Tree Search for Auto-ML, Auto-ML system, Auto-ML application. One-shot learning for Auto-ML.
2. **High Performance Computing**: high performance deep learning framework development, memory allocation optimization for deep learning, multi-GPUs communication optimization for deep learning

Publications

1. Linnan Wang*, **Yiyang Zhao***, Yuu Jinnai, Yuandong Tian, Rodrigo Fonseca, *Neural Architecture Search using Deep Neural Networks and Monte Carlo Tree Search*
* these authors contributed equally to this paper
Thirty-Fourth AAAI conference on Artificial Intelligence(AAAI)-2020
2. Linnan Wang, Jinmian Ye, **Yiyang Zhao**, Wei Wu, Ang Li, Shuaiwen Leon Song, Zenglin Xu, Tim Kraska, *SuperNeurons: Dynamic GPU Memory Management for Training Deep Neural Networks*. Principles and Practice of Parallel Programming (PPOPP)-2018
3. **Yiyang Zhao**, Linnan Wang, Jinmian Ye, Wei Wu, George Bosilca, Richard Vuduc, Wenqi Tang, Zenglin Xu, *Efficient Communications in Training Large Scale Neural Networks*. In Proceedings of the 25th ACM international conference on Multimedia Thematic Workshop (ACM-MM2017)

In submission

1. Linnan Wang, Wei Wu, **Yiyang Zhao**, Hang Liu, George Bosilca, Jack Dongarra, Maurice Herlihy, Rodrigo Fonseca, *SuperNeurons: FFT-based Gradient Sparsification in the Distributed Training of Deep Neural Networks*
<https://arxiv.org/pdf/1811.08596.pdf>