

Yanzhao Wu

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

- Ph.D. student in Computer Science
 - Area: **Systems** for ML, **ML** for Systems
 - Focus: Deep Learning & Big Data Systems
 - Cumulative GPA: 3.81 / 4.00

Aug 2017 – May 2021 (expected)

University of Science and Technology of China (USTC), Hefei, Anhui, China

- Bachelor of Computer Science and Technology
 - Graduated with **Honors**.
 - Cumulative GPA: 3.80 / 4.30

Sep 2013 – Jul 2017

RESEARCH EXPERIENCE

Experimental Analysis and Optimization of Deep Learning Frameworks

- Distributed Data Intensive Systems Lab, Georgia Tech
 - Supervisor: Prof. Ling Liu
 - Focus: Deep Learning Frameworks, Performance Analysis
 - Goal: Analyze the hyper-parameters and basic components of Deep Learning and optimize Deep Learning Frameworks by tuning data-related and hardware-related parameters.
 - Achievement: *Benchmarking Deep Learning Frameworks: Design Considerations, Metrics and Beyond* (ICDCS'18)

Aug 2017 – Sep 2018

Accelerating Deep Learning with Direct-to-GPU Storage

- Storage Systems Research Group, IBM Research
 - Mentors: Amit Warke, Dr. Daniel Waddington
 - Focus: Storage Systems, Deep Learning Frameworks
 - Achievement: Integrated the Direct-to-GPU storage system into Caffe to obtain **over 2×** performance improvement by reducing the overhead of data transmission.

May 2018 – Aug 2018

DeepEyes: A Deep Learning Powered Localization System with Multi-modal Sensors

- Distributed Data Intensive Systems Lab, Georgia Tech
 - Supervisor: Prof. Ling Liu
 - Focus: Localization, Deep Learning
 - Achievement: Implemented an out-door/in-door localization system **without requiring the common localization infrastructure**, such as GPS, cellular network, and WiFi, with the help of deep learning models.

Aug 2017 – May 2017

Parallel Graph Search Algorithms Analysis & Design

- National High-Performance Computing Center (Hefei), USTC
 - Supervisor: Prof. Yun Xu
 - Focus: Parallel Graph Search Algorithms, Breadth-First Search (BFS)
 - Achievement: Designed a new parallel BFS algorithm with better performance and load balance.

Feb 2017 – Aug 2017

Detecting Large-gap Code Clones

- National High-Performance Computing Center (Hefei), USTC
 - Supervisor: Prof. Yun Xu
 - Focus: Source Code Processing & Indexing, Edit Distance, Detection Algorithms
 - Achievement: *CCAligner: a token based large-gap clone detector* (ICSE'18).

Sep 2015 – Jul 2017

Summer Research Internship on Automatic Verification

- School of Computer Science, University of Birmingham
 - Supervisor: Prof. David Parker
 - Focus: *LTS* (Labeled Transition Systems) Model Checker, *Game* Model Checker
 - Achievement: Implemented *LTS* model checker and *Game* model checker for PRISM, a widely applied probabilistic model checker for analysis of systems, to enable it to support non-probabilistic models further.

Jul 2016 – Aug 2016

PUBLICATION

- **Yanzhao Wu**, Ling Liu, Calton Pu, Wenqi Cao, Semih Sahin, Wenqi Wei, Qi Zhang. “A Comparative Measurement Study of Deep Learning as a Service Framework” (Under submission)
- Wenqi Cao, Ling Liu, Calton Pu, Semih Sahin, **Yanzhao Wu**. “Disaggregated Memory Orchestration: A Software Defined, Application Transparent Approach” (Under submission)
- Wenqi Wei, Ling Liu, Stacey Truex, Lei Yu, Mehmet Emre Gursoy, **Yanzhao Wu**. “Adversarial Examples in Deep Learning: Characterization and Divergence” (Under submission)
- **Yanzhao Wu**, Wenqi Cao, Semih Sahin, and Ling Liu. “Experimental Characterizations and Analysis of Deep Learning Frameworks” (**Accepted to BigData2018**)
- Ling Liu, **Yanzhao Wu**, Wenqi Wei, Wenqi Cao, Semih Sahin, and Qi Zhang. “Benchmarking Deep Learning Frameworks: Design Considerations, Metrics and Beyond.” In 2018 IEEE 38th International Conference on Distributed Computing Systems (ICDCS), pp. 1258-1269. IEEE, 2018. (**ICDCS'18**)
- Pengcheng Wang, Jeffrey Svajlenko, **Yanzhao Wu**, Yun Xu and Chanchal K. Roy. “CCAligner: a token based large-gap clone detector.” In Proceedings of the 40th International Conference on Software Engineering, pp. 1066-1077. ACM, 2018. (**ICSE'18**)