Yanzhao Wu

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

- Ph.D. student in Computer Science — Aug 2017 – Present
  - Area: Systems
  - Focus: Deep Learning Systems, Big Data, Graph Processing Systems.

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

- Bachelor of Computer Science and Technology — Sep 2013 – Jul 2017
  - Graduated with **Honors**.
  - Cumulative GPA: 3.80 / 4.30

RESEARCH EXPERIENCE

Large-scale Distributed Cluster Computing for Deep Learning Networks

- Distributed Data Intensive Systems Lab, Georgia Tech — Aug 2017 – Present
  - Supervisor: Prof. Ling Liu
  - Focus: Deep Learning Systems, Performance Analysis
  - Goal: Build an efficient data and computing platform for deep learning.

High-performance Distributed Graph Processing Systems with Billions of Vertices and Edges

- Distributed Data Intensive Systems Lab, Georgia Tech — Aug 2017 – Present
  - Supervisor: Prof. Ling Liu
  - Focus: Algorithm Analysis & Optimization, Big Graph Processing System
  - Goal: Build an innovative and elastic big graph processing system.

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

- Distributed Data Intensive Systems Lab, Georgia Tech — Aug 2017 – Present
  - Supervisor: Prof. Ling Liu
  - Focus: Localization, Deep Learning
  - Goal: Implement an out-door localization system with the deep learning model.

Parallel Graph Search Algorithms Analysis & Design

- National High-Performance Computing Center (Hefei), USTC — Feb 2017 – Aug 2017
  - Supervisor: Prof. Yun Xu
  - Focus: Parallel Graph Search Algorithms, Breadth-First Search (BFS)
  - Achievement: Design a new parallel BFS algorithm with better performance and load balance.

Detecting Large-gap Code Clones

- National High-Performance Computing Center (Hefei), USTC — Sep 2015 – Jul 2017
  - Supervisor: Prof. Yun Xu
  - Focus: Source Code Processing & Indexing, Edit Distance, Detection Algorithms
  - Achievement: CCAligner, a token based large-gap clone detector (Accepted to **ICSE'18**).

Summer Research Internship on Automatic Verification

- School of Computer Science, University of Birmingham — Jul 2016 – Aug 2016
  - Supervisor: Prof. David Parker
  - Focus: *LTS* (Labeled Transition Systems) Model Checker, *Game* Model Checker
  - Achievement: Implement *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.

Optimization for Distributed Applications

- Advanced Computer System Architecture Laboratory, USTC — Sep 2015 – Jun 2016
  - Supervisor: Prof. Hong An
  - Focus: Gromacs, WRF
  - Achievement: **1st** on WRF benchmark (**1st: 100%, 2nd: 64.83%**) in Student Cluster Competition, ISC 2016

PUBLICATION

- Pengcheng Wang, Jeffrey Svajlenko, **Yanzhao Wu**, Yun Xu and Chanchal K. Roy, "CCAligner: a token based large-gap clone detector" (Accepted to ICSE'18)
- Ling Liu, **Yanzhao Wu** and Yang Zhou, "GraphLego: A Fast Graph Processing System with Resource Aware Graph Parallel Abstractions" (To be submitted to Journal.)
- **Yanzhao Wu**, Ling Liu and Wenqi Wei, "A Performance Comparison of Deep Learning Frameworks" (In preparation)
- Ling Liu, **Yanzhao Wu** and Wenqi Wei, "DeepEyes: A Deep Learning Powered Localization System with Multi-modal Sensors" (In preparation)

SKILL

- Linux: Proficient with Linux
- Programming Skills: C, C++, Python, JavaScript, Java, Go, OpenMP, MPI, CUDA, SQL
- Tools: TensorFlow, Caffe, Torch, MXNet, GraphChi, X-Stream, FlashGraph, LLVM, Git, PRISM, LaTeX