Yunhao Zhang

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Education

Cornell University, Ithaca, United States — Sep 2017 - Present

- *Ph.D. student* in computer science supervised by Lorenzo Alvisi
- *Instructor* of Operating Systems Practicum (CS4411)

Shanghai Jiao Tong University, Shanghai, China — Sep 2013 - Jun 2017

- *B.E.* in software engineering supervised by Rong Chen and Haibo Chen
- Major GPA: 4.0/4.0; Outstanding graduation thesis of Shanghai Jiao Tong University (*Top 1%*)

Publication

Byzantine Ordered Consensus without Byzantine Oligarchy. Yunhao Zhang, Srinath Setty, Qi Chen, Lidong Zhou and Lorenzo Alvisi. In Proceedings of the 14th USENIX Symposium on Operating Systems Design and Implementation (**OSDI'20** *Jay Lepreau Best Paper Award*)

Sub-millisecond Stateful Stream Querying over Fast-evolving Linked Data. Yunhao Zhang, Rong Chen and Haibo Chen. In Proceedings of the 26th ACM Symposium on Operating Systems Principles (**SOSP'17**)

Relevant Experience

Systems Group, Microsoft Research Asia — May 2019 – Aug 2019

Supervisor: Qi Chen and Lidong Zhou

- Work on defining the ordering dimension of blockchains which led to a best paper award at OSDI'20. The work is motivated by the real-world concern of selfish ordering manipulation and is inspired by the main work of Nobel laureate Kenneth Arrow in social choice theory.
  open-sourced repo: *https://github.com/orgs/Pompe-org/*

Institute of Parallel and Distributed Systems, SJTU — Nov 2015 – Jun 2017

Supervisor: Rong Chen and Haibo Chen

- Work on fast and concurrent stream queries with RDMA-based distributed key-value store.
  open-sourced repo: *ipads.se.sjtu.edu.cn:1312/opensource/wukong*

Teaching

Operating Systems & Operating Systems Practicum (Cornell CS4410 & CS4411)

- *Instructor* in spring 2019 and fall 2020; *Teaching assistant* in fall 2018 and spring 2020
- In summer 2018, Robbert van Renesse and I worked together and built EGOS, our teaching OS.
- EGOS contains about 15K lines of C code and I contributed about 5K mainly for its file systems.
- I am currently porting EGOS from the POSIX process abstraction to a RISC-V processor (SiFive E310).

Networked and Distributed Systems (Cornell CS5450)

- *Teaching assistant* in fall 2017; CS department outstanding teaching award (2018)

Selected Honors

President of computer science graduate organization (CSGO) — Sep 2019 - Sep 2020
CS department outstanding teaching award — May 2018, May 2019, May 2020
Tang Lixin fellowship — Oct 2016
Bronz Prize, National Olympiad in Informatics (NOI2012) — Aug 2012

Skills

Emacs, C/C++, Python, Java, Scala, RDMA, FPGA, Apache Spark, Apache Storm