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
- Recipient of the 2021 Facebook fellowship
- 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
- Worked on defining the ordering dimension of distributed consensus leading to the Jay Lepreau 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
- Worked 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, spring 2020 and spring 2021
- 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; Worked with Vitaly Shmatikov for this master level course.

Recent Honors

Facebook fellowship	Apr 2021
Jay Lepreau Best Paper Award at OSDI	Nov 2020
CS department outstanding teaching award	May 2018, May 2019, May 2020
President of computer science graduate organization (CSGO)	Sep 2019 - Sep 2020

Skills

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