Yunhao Zhang

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Education

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

- *Ph.D. student* in computer science advised by Lorenzo Alvisi
- Instructor of operating systems practicum (CS4411)
- Recipient of the 2021 Facebook fellowship (26 out of 2163, only recipient in the distributed systems area)

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

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

Experience

Architecture Team, Lacework — May 2021 – Aug 2021

Mentor: Úlfar Erlingsson, Chief Architect

- Initiated the architecture shift from batch processing paradigm to stream processing paradigm; Led the proof of concept introducing Apache Kafka into the architecture for real-time data processing; Facilitated communications across different engineering teams and senior engineers.

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

Mentor: Lidong Zhou, Director and Distinguished Scientist

- Drew deep connections across distributed systems, game theory and mechanism design; Outlined the design space of regulating arbitrage in blockchains; Received the Jay Lepreau best paper award at OSDI'20.

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

Mentor: Haibo Chen, Distinguished Professor

- Worked on fast and concurrent stream queries leveraging RDMA-based distributed key-value stores.

Publication

Basil: Breaking up BFT with ACID Transactions. Florian Suri-Payer, Matthew Burke, Zheng Wang, Yunhao Zhang, Lorenzo Alvisi and Natacha Crooks (**SOSP'21**)

Byzantine Ordered Consensus without Byzantine Oligarchy. Yunhao Zhang, Srinath Setty, Qi Chen, Lidong Zhou and Lorenzo Alvisi. (**OSDI'20** *Jay Lepreau Best Paper Award*)

Sub-millisecond Stateful Stream Querying over Fast-evolving Linked Data. Yunhao Zhang, Rong Chen and Haibo Chen. (**SOSP'17**)

Teaching

Operating Systems & Operating Systems Practicum (CS4410 & CS4411)

- *Instructor* in spring 2019 and fall 2020; *TA* in fall 2018, spring 2020 and spring 2021
- In summer 2018, professor 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 (CS5450)

- *TA* in fall 2017; Worked with Vitaly Shmatikov for this master level course.

Recent Honor

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