

# YUNHAO ZHANG

✉ yz2327@cornell.edu · 🌐 www.dolobyte.net

## EDUCATION

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

- *PhD Candidate* in computer science advised by Lorenzo Alvisi
- Recipient of the 2021 Facebook PhD fellowship (26 out of 2163 globally)
- Author of egos-2000, a teaching operating system with only 2K lines of code

**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%*)

## 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 & Practicum in Operating Systems** CS4410 & CS4411

- *TA* in fall 2018, spring 2020, spring 2021 and fall 2023
- *Co-instructor* in spring 2019, fall 2020, spring 2022 and fall 2022
- Worked with professor Robbert van Renesse and implemented a teaching operating system on QEMU and RISC-V boards with only 2000 lines of code: [github.com/yhzhzhang0128/egos-2000](https://github.com/yhzhzhang0128/egos-2000).

**Networked and Distributed Systems** CS5450

- *TA* in 2017 fall; Worked with professor Vitaly Shmatikov.

## EXPERIENCE

**DEX Trading Team**, Jump Crypto Jun 2022 – Aug 2022

- Worked on confidential projects related to blockchains.

**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 connections between distributed systems and economics; 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: Rong Chen, Professor; Haibo Chen, Distinguished Professor

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

## SELECTED HONOR

CS department outstanding teaching award May 2018, May 2019, May 2020, May 2023

President of computer science graduate organization (CSGO) Sep 2019 - Sep 2020