

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 an operating system for teaching CS4411 at Cornell: github.com/yhzhang0128/egos-2000

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 2018 fall, 2020 spring and 2021 spring
- *Co-instructor* in 2019 spring, 2020 fall, 2022 spring and 2022 fall
- Worked with professor Robbert van Renesse; Implemented a teaching operating system on a small RISC-V board with only 2000 lines of code: github.com/yhzhang0128/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

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