Nuda (Tony) Zhang

EDUCATION

- Ph.D., Computer Science, **University of Michigan at Ann Arbor** — 2019 - Present
  Advised by Professor Manos Kapritsos
- B.A., Computer Science and Mathematics, **Cornell University** — 2015 - 2018

WORK EXPERIENCE

Mysten Labs

Research Intern (Summer 2023 · remote)

- Worked with Mysten Labs researchers to design and implement a novel scale-out execution engine for lazy blockchains

VMware

Research Intern (Summer 2022 · Bellevue, WA)

- Worked on implementing a verified key-value store based on SplinterDB, as a proof of concept for practical, high-performance verified software

Software Engineering Intern, Apple

Software Engineering Intern (Summer 2021 · remote)

- Designed a multi-partition transaction protocol for the open-sourced Apache Cassandra database, published as a Cassandra Enhancement Proposal whitepaper

Member of Technical Staff, Oracle

Software Engineer (2019 · Redwood City, CA)

- Worked in a 20-person team in developing and maintaining TimesTen, a distributed in-memory database

PUBLICATIONS AND TECHNICAL REPORTS

1. **Tony Nuda Zhang**, Upamanyu Sharma, and Manos Kapritsos. 2023. *Performal: Formal Verification of Latency Properties for Distributed Systems*. Proc. ACM Program. Lang. 7, PLDI, Article 121 (June 2023), 26 pages. https://doi.org/10.1145/3591235
2. Benedict Elliot Smith, **Nuda Zhang**, Blake Eggleston and Scott Andreas. 2021. *CEP-15: General Purpose Transactions.* Cassandra Enhancement Proposal whitepaper. https://cwiki.apache.org/confluence/display/CASSANDRA/CEP-15:+General+Purpose+Transactions
3. Eli Goldweber, **Nuda Zhang**, and Manos Kapritsos. 2020. *Brief Announcement: On the Significance of Consecutive Ballots in Paxos.* In Proceedings of the 39th Symposium on Principles of Distributed Computing (PODC '20). Association for Computing Machinery, New York, NY, USA, 172–174. https://doi.org/10.1145/3382734.3405700

4. Eli Goldweber, **Nuda Zhang**, and Manos Kapritsos. 2020. *On the Significance of Consecutive Ballots in Paxos*. Technical Report. https://doi.org/10.48550/arXiv.2006.01885

TEACHING

- (Fall 2021) Teaching assistant for EECS 591: Distributed Systems, University of Michigan
- (Fall 2018) Teaching assistant for CS 4820: Introduction to Analysis of Algorithms, Cornell University
- (Spring 2017 - Spring 2018) Teaching assistant for CS 2110: Object-Oriented Programming & Data Structures, Cornell University

ACTIVITIES

- (2023) Artifact Evaluation Committee, SOSP
- (2020 - 2022) Social Chair, Computer Science and Engineering Graduate Student Organization, University of Michigan
- (2017 - 2018) Officer, Association of Computer Science Undergraduates, Cornell University