

Education

University of Michigan

Ann Arbor, MI

PhD Pre-Candidate in Computer Science

Aug 2019 - Present

Supervised by Manos Kapritsos

Cornell University Ithaca, NY

B.A. IN COMPUTER SCIENCE AND MATHEMATICS

Aug 2015 - Dec 2018

Peer-Reviewed Publications

PODC'20 Brief Announcement: On the Significance of Consecutive Ballots in Paxos, *Eli Goldweber, Nuda Zhang, Manos Kapritsos*

Relevant Experience

University of Michigan at Ann Arbor

Ann Arbor, MI

GRADUATE RESEARCHER

2019 - Present

- Studying the art of reliable distributed systems, supervised by Manos Kapritsos
- Work on formal verification of distributed systems

Apple Remote

INTERN Summer 2021

- · Developed a multi-partition transaction protocol for Apache Cassandra based on Egalitarian Paxos
- Derived a formal proof of correctness for the protocol
- Implemented network partition simulations for prototype in Jepsen Maelstrom

Oracle Redwood Shores, CA

SOFTWARE ENGINEER 2019

• Work on the TimesTen in-memory database system

Cornell University Ithaca, NY

Undergraduate Research Assistant

• Work on state machine replication and Byzantine distributed transaction systems, supervised by Robbert van Renesse and Lorenzo Alvisi

Institute of High Performance Computing

Singapore

SUMMER RESEARCH INTERN

2017

2018

• Work on cancer cell detection using computer vision techniques

Teaching Experience

CS 4820: Introduction to Analysis of Algorithms

Cornell University

TEACHING ASSISTANT

2018

CS 2110: Object-Oriented Programming & Data Structures

Cornell University

RECITATION INSTRUCTOR

2017 - 2018

Activities_____

Computer Science and Engineering Graduate student organization

University of Michigan at Ann Arbor

TEA CHAIR 2020 - Present

• Organize weekly tea socials, among other service to the graduate student body

Association of Computer Science Undergraduates

Cornell University

RESEARCH TEAM LEAD 2017-2018

- Led the Undergraduate Reading Group initiative, focusing on exposing underclassman to seminal research not taught in introductory classes
- Organized campus-wide events such as tech workshops and the semesterly student-faculty luncheon

Honors & Awards

2018	Participant, Cornell, Maryland, Max Planck Pre-doctoral Research School	Saarbrücken, Germany
2015-18	Recipient, Dean's List, all semesters	Cornell University
2013-14	National Serviceman, Completed 2 years of full-time National Service	Singapore
2013	Recipient , Singapore A*STAR National Science Scholarship (declined offer)	Singapore
2011	Silver Medal , 24 th International Young Physicists' Tournament	Tehran, Iran

Technical Reports _____

arXiv:2006.01885 On the Significance of Consecutive Ballots in Paxos, *Eli Goldweber, Nuda Zhang, Manos Kapritsos*