ZHONGTANG LUO

♥ Purdue University

🗞 zhtluo.com 🗹 zhtluo@gmail.com

2021 - now

2021 - 2024

2016 - 2020

2024

2019

Advisor: Aniket Kate

Advisor: Aniket Kate

Advisor: Dawn Song

EDUCATIONS

Purdue University *Ph.D., Computer Science*

Purdue University *M.S., Computer Science (GPA: 3.9)*

Shanghai Jiao Tong University B.S., Computer Science (Zhiyuan Honors Program)

EXPERIENCES

Meta Platforms, Inc. Intern (Applied Privacy Team)

University of California, Berkeley *Visiting Student (Keystone Enclave)*

RESEARCH INTERESTS

In my research, I look at how to make industry and academic work on **cryptography**, **distributed systems**, **blockchains** and **applied security** match up better, especially in how they handle efficiency and security. I've looked at things like consensus and data provenance. I see that companies focus on making their prototypes fast and efficient, while academia cares more about making sure these prototypes are formalized and secure. This difference creates a gap. My main question is: Can we find a way to make prototypes that are both fast and formalized?

PUBLICATIONS

Sharding SMR with Optimal-size Shards for Highly Scalable Blockchains Jianting Zhang, Zhongtang Luo, Raghavendra Ramesh, Aniket Kate	[arXiv]
Proxying is Enough: Security of Proxying in TLS Oracles and AEAD Context Unforge Zhongtang Luo , Yanxue Jia, Yaobin Shen, Aniket Kate	ability [SBC'24]
Attacking and Improving the Tor Directory Protocol Zhongtang Luo, Adithya Bhat, Kartik Nayak, Aniket Kate	[IEEE SP'24]
Last Mile of Blockchains: RPC and Node-as-a-service Zhongtang Luo, Rohan Murukutla, Aniket Kate	[IEEE TPS'22]
RandPiper - Reconfiguration-Friendly Random Beacons with Quadratic Communicat Adithya Bhat, Nibesh Shrestha, Zhongtang Luo , Aniket Kate, Kartik Nayak	ion [ACM CCS'21]

PROJECTS

A Tor Consensus Monitor that Detects Equivocation https://gitlab.torproject.org/zhtluo/depictor

OrgAn: Organizational Anonymity with Low Latency

https://github.com/zhtluo/organ

TEACHING

CS41100 - CP3 Competitive Programming III (Spring 2024) ((Instructor)	2024, Purdue University
CS31100 - CP2 Competitive Programming II (Fall 2023) (Inst	tructor)	2023, Purdue University
CS25100 Data Structures & Algorithms (Fall 2021) (Teaching	g Assistant)	2021, Purdue University
Programming Contest (Instructor)	2015 - 2019, C	Children's Palace in Shanghai
SERVICES		

ACM TOIT 2023

ACM CCS 2022

ACTIVITIES

Competitive Programming

- Active participant in Codeforces (handle: zhtluo)
- Silver award in ACM ICPC World Final 2018 in team Nightfall, together with Wenda Qiu and Boning Li
- Gold award in ACM ICPC Asia East Continent League (EC Final) 2017 & 2018
- Gold award in China Collegiate Programming Contest Final (CCPC Final) 2017 & 2018

Capture the Flag (CTF)

- First place in Raymond James CTF 2023

- Third place in HackIN 2021

SKILLS

Languages: Chinese (Native), Japanese (JLPT N1)

Programming: Python, C, C++, Rust, Java, Javascript

OTHER AWARDS

Shanghai Jiao Tong University Undergraduate Outstanding Scholarship

2017-2019

USD 10000

USD 1000

Reviewer

External Reviewer