Yuzhe Tang

Mailing address: 5991 Bay Hill Circle, Jamesville, NY 13078, USA

• Email: ytang100@syr.edu • Phone: (315) 412-7628 • Web: https://ecs.syr.edu/faculty/yuzhe

Appointments

2022 - Now Associate Professor, Department of EECS, Syracuse University 2014 - 2022 Assistant Professor, Department of EECS, Syracuse University

Education

Ph.D. Georgia Institute of Technology (Atlanta, GA USA), 2009-2014

M.Sc. Fudan University (Shanghai, China), 2006-2009 B.Sc. Fudan University (Shanghai, China), 2002-2006

Research Interests

I am interested in the intersection between cybersecurity and systems. My research mission is to bringsystems security and efficiency to large-scale, emerging/evolving infrastructures and applications. 1) On the cyber-security front, I am interested in applying formal methods, protocol analysis, automated program analysis, and software testing techniques to discover vulnerabilities, detect attacks, and design secure systems. I am also interested in the security-oriented measurement of large-scale systems. 2) On the systems front, I am interested in workload analysis, benchmarking, design of optimization schemes and middleware in various host systems.

My recent research focuses on decentralized systems like public blockchains. I tackle the systems security/efficiency challenges at different blockchain layers, including application-level DeFi protocol, smart contracts, down to the systems-level consensus implementations, P2P networking, and web3.0 infrastructures. I am particularly interested in discovering and fixing design flaws in blockchains and DeFi applications using formal methods. My recent research on blockchain mempool security is well recognized in the Ethereum/blockchain developer community. Besides, I am developing and disseminating blockchain educational materials.

In the past, I worked on confidential computing, trusted execution environments, applied privacy-preserving protocols, and cloud security.

Research Funds

• Total amount: 2.01 million USD

My share: 1.87 million USD

1.43 million USD from NSF

2022-2025	CNS Core: Small: One Size doesn't Fit All: Workload-Aware Cost Optimization for
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Decentralized Applications on Blockchains Yuzhe Tang (Single PI), \$498,624 (100%)

National Science Foundation (NSF)

2022-2023 DoS-secure transaction propagation on Ethereum: Exploit generation and attack detection

Yuzhe Tang (Single PI), \$84,392 (100%)

Ethereum Foundation

2021-2024 Collaborative Research: SaTC: EDU: Developing Instructional Laboratories for Blockchain

Security Applications,

Yuzhe Tang (PI), Jing Lei, Farzana Rahman, Hongmei Chi. Total: \$399,995 + \$16,000 (REU), my share: \$356,000 (86%)

National Science Foundation (NSF)

2018-2022 SaTC: Small: External Obliviousness in Trusted Execution Environments

Yuzhe Tang (Single PI), \$496,999 + \$16,000 (100%)

National Science Foundation (NSF)

2019-2020 Planning IUCRC Syracuse University: Center for High-Assurance Secure Systems and IoT

(CHASSI)

Shiu-Kai Chin (PI), Yuzhe Tang (Co-PI), \$15.000

National Science Foundation (NSF)

2018-2020 SGX-based Key-Management Applications in the Cloud

Yuzhe Tang (Single PI), \$9,996 (100%)

Intel Gift

2017-2018 Cryptographic Engineering on Modern Trusted Platforms

Yuzhe Tang (PI), Wenliang Du (Co-PI) Total: \$300,000, my share: \$200,000 (66%)

National Security Agency (NSA)

2017-2017 Secure Multi-Party Databases by Oblivious Query Translation and Execution

Yuzhe Tang (PI), \$13,200 (100%)

Air Force Research Lab Visiting Faculty Research Program

2015-2016 Optimizing Privacy-Preserving Analytics in Information Networks

Yuzhe Tang (PI), \$69,861 (100%)

Cyber Research Institute (CRI)

Bug bounty From Ethereum Foundation

awards

\$12,000 (2021), \$2000 (2022)

Bug bounty from OpenEthereum/Parity

\$8,000 (2021)

Internal Grants

2021-2023 Workload-Adaptive Designs for Cost-Effective Decentralized Applications on Blockchains

Yuzhe Tang (Single PI), \$21,000,

CUSE Grant (Syracuse University Internal Grant)

2018-2020 On-Campus Blockchain Applications for Education and Beyond

Wenliang Du (PI), Yuzhe Tang (Co-PI), \$30,000 CUSE Grant (Syracuse University Internal Grant)

2018-2020 Efficient Algorithms for Secure, Large-Scale Graph Mining

Yuzhe Tang (PI), Sucheta Soundarajan (Co-PI), \$30,000

CUSE Grant (Syracuse University Internal Grant)

Publications

• <u>Underline</u> indicates students advised by Dr. Yuzhe Tang

EuroS&P 23 Uncovering Atomicity Violations and Security Risks in Decentralized Exchange in the Wild

Jiaqi Chen, Yibo Wang, Yuxuan Zhou, Wanning Ding, Yuzhe Tang, XiaoFeng Wang, Kai Li

8th IEEE European Symposium on Security and Privacy, 2023

TC 23 BlockExplorer: Exploring Blockchain Big Data via Parallel Processing

Shipeng Li, Jingwei Li, Yuxing Tang, Xiapu Luo, Zheyuan He, Zihao Li, Xi Cheng, Yang Bai,

Ting Chen, Yuzhe Tang, Zhe Liu, Xiao-song Zhang

IEEE Transactions on Computers

EthiCS 23 Ethical Challenges in Blockchain Measurement Research

Yuzhe Tang, Kai Li, Yibo Wang, Jiaqi Chen

The 2nd International Workshop on Ethics in Computer Security (EthiCS 2023), Co-located

with NDSS 2023

TSE 23 Towards Saving Blockchain Fees via Secure and Cost-Effective Batching of Smart-Contract

Invocations

Yibo Wang, Kai Li, Jiaqi Chen, Yuzhe Tang, Qi Zhang, Xiapu Luo, Ting Chen

TSE (IEEE Transactions on Software Engineering)

ConsensusDay 22 Towards the Comprehensive Understanding of Ethereum Mempool DoS Security

Yibo Wang, Kai Li, Yuzhe Tang

Consensus Day 22, Co-located with CCS 2022

CCS 22p Enabling Cost-Effective Blockchain Applications via Workload-Adaptive Transaction

Execution

Yibo Wang, Yuzhe Tang

ACM Conference on Computer and Communications Security (CCS) 2022, Poster

CCS 21 DETER: Denial of Ethereum's Txpool-basEd seRvices

Kai Li, Yibo Wang, Yuzhe Tang

ACM Conference on Computer and Communications Security (CCS) 2021

IMC 21 TopoShot: Uncovering Ethereum's Network Topology Leveraging Replacement Transactions

Kai Li, Yuzhe Tang, Jiaqi Chen, Yibo Wang, Xianghong Liu

ACM Internet Measurement Conference (IMC) 2021

Acceptance rate=28%

NDSS 21 As Strong As Its Weakest Link: How to Break Blockchain DApps at RPC Service

Kai Li, Jiaqi Chen, Xianghong Liu, Yuzhe Tang, XiaoFeng Wang, Xiapu Luo The Network and Distributed System Security Symposium (NDSS) 2021

Acceptance rate=15.2%

FSE 21 iBatch: Saving Ethereum Fees via Secure and Cost-Effective Batching of Smart-Contract

Invocations

Yibo Wang, Qi Zhang, Kai Li, Yuzhe Tang, Jiaqi Chen, Xiapu Luo, Ting Chen

ACM Joint European Software Engineering Conference and Symposium on the Foundations

of Software Engineering (ESEC/FSE) 2021

Acceptance rate=24.5%

Middleware 21i Authenticated Key-Value Stores with Hardware Enclaves

Kai Li, Yuzhe Tang, Qi Zhang, Jianliang Xu, Ju Chen

ACM/IFIP Middleware 2021 (Industrial track)

ToNSE 21 VFChain: Enabling Verifiable and Auditable Federated Learning via Blockchain Systems

Zhe Peng, Jianliang Xu, Xiaowen Chu, Shang Gao, Yuan Yao, Rong Gu, Yuzhe Tang

IEEE Transactions on Network Science and Engineering (ToNSE) 2021

Middleware 20 Cost-Effective Data Feeds to Blockchains via Workload-Adaptive Data Replication

Kai Li, Yuzhe Tang, Jiagi Chen, Zhehu Yuan, Cheng Xu, Jianliang Xu

ACM/IFIP Middleware conference 2020

Acceptance rate=25.2%

SERIAL 20 Scalable Log Auditing on Private Blockchains via Lightweight Log-Fork Prevention

Yuzhe Tang, Kai Li, Yibo Wang, Sencer Burak Somuncuoglu

Workshop on Scalable and Resilient Infrastructures for Distributed Ledgers 2020, co-located

with ACM/IFIP Middleware conference 2020

ICDE 19 GEM^2-Tree: A Gas-Efficient Structure for Authenticated Range Queries in Blockchain

Ce Zhang, Cheng Xu, Jianliang Xu, Yuzhe Tang, Byron Choi

IEEE 36th International Conference on Data Engineering (ICDE) 2020

Acceptance rate=26.8%

SecureComm19 Secure Consistency Verification for Untrusted Cloud Storage by Public Blockchains

Kai Li, Yuzhe Tang, Beom Heyn Kim, Jianliang Xu

SecureComm 2019

SecureComm19 Authenticated LSM Trees with Minimal Trust

Yuzhe Tang, <u>Ju Chen</u>, <u>Kai Li</u> SecureComm 2019 (Short paper)

CISSE 19 Hands-on Labs for Secure Programming on Modern Trusted Platforms

Yuzhe Tang, Wenliang Du

The Colloquium For Information Systems Security Education, 2019

ASONAM 19p Computing Node Clustering Coefficients Securely

K. Areekijseree, Yuzhe Tang, Sucheta Soundarajan

IEEE ACM International Conference on Advances in Social Networks Analysis and Mining

(ASONAM), 2019, Poster

SecureComm18 Secure and Efficient Multi-Party Directory Publication for Privacy-Preserving Data Sharing

K. Areekijseree, Ju Chen, Yuzhe Tang, Shuang Wang, Arun Iyengar and B. Palanisamy

SecureComm 2018, Acceptance rate=30.6%

Cloud 18 ChainFS: Blockchain-Secured Cloud Storage

Qiwu Zou, Yuzhe Tang, Ju Chen, Kai Li, Charles Kamoua, Kevin Kwiat, Laurent Njilla

IEEE Cloud 2018, Acceptance rate=20%

Cloud 18 Pinchao Liu, Liting Hu, Hailu Xu, Zhiyuan Shi, Jason Liu, Qingyang Wang, Jai Dayal and

Yuzhe Tang

A Toolset for Detecting Containerized Application's Dependencies in CaaS Clouds

IEEE Cloud 2018, Acceptance rate=20%

Cloud 18 Hailu Xu, Liting Hu, Pinchao Liu, Yao Xiao, Wentao Wang, Jai Dayal, Qingyang Wang and

Yuzhe Tang

Oases: An Online Scalable Spam Detection System for Social Networks

IEEE Cloud 2018, Acceptance rate=20%

FC 18w Lightweight Blockchain Logging for Data-Intensive Applications

Yuzhe Tang, Zihao Xing, Cheng Xu, Ju Chen, Jianliang Xu

The Workshop of Trusted Smart Contract at the International Conference of Financial

Cryptography 2018

TVT 18 Non-interactive Identity-based Underwater data transmission with Anonymity and Zero-

knowledge

Changsheng Wan, Vir V Phoha, Yuzhe Tang, Aiqun Hu

IEEE Transactions on Vehicular Technology 2017

CIC 17 PADS: Privacy-preserving Auction Design for Allocating Dynamically Priced Cloud Resources

Jinlai Xu, Balaji Palanisamy, Yuzhe Tang, SD Madhu Kumar

IEEE CIC 2017

SOSP 17w Strongly Secure and Efficient Data Shuffle on Hardware Enclaves

Ju Chen, Yuzhe Tang, Hao Zhou

The Workshop of Systems Software for Trusted Execution (SysTEX) at ACM SOSP 2017

ICDCS 17p Towards Secure Public Directory for Privacy-Preserving Data Sharing

Amin Fallahi, Xi Liu, Yuzhe Tang, Shuang Wang, Rui Zhang

IEEE International Conference on Distributed Computing Systems, Poster

ICDCS 17w Social-Aware Decentralization for Efficient and Secure Multi-Party Computation

	Vuzho Tong, Suphoto Soundoroian
	Yuzhe Tang, Sucheta Soundarajan The Workshop of Big-Data Privacy and Security at IEEE International Conference on
	Distributed Computing Systems
BMC 16	Secure Multi-pArty Computation Grid LOgistic REgression (SMAC-GLORE)
	Haoyi Shi, Chao Jiang, Wenrui Dai, Xiaoqian Jiang, Yuzhe Tang, Lucila Ohno-Machado and
	Shuang Wang
SecDev 16	BMC Medical Informatics and Decision Making [ppen access]
Secret 16	Towards Building Practical And Secure Multi-Party Databases Yuzhe Tang, Wenging Zhuang
	IEEE Cyber-security Development Conference 2016 (Abstract)
Bioinfomatics 16	HEALER: Homomorphic computation of ExAct Logistic rEgRession for secure rare disease
	variants analysis in GWAS
	Shuang Wang, Y. Zhang, W. Dai, K. Lauter, M. Kim, Yuzhe Tang, X. Jiang
DMC 15	Oxford Journals BioInformatics, doi: 10.1093/bioinformatics/btv563
BMC 15	Privacy-preserving GWAS analysis on federated genomic datasets Scott D Constable, Yuzhe Tang, Shuang Wang, Xiaoqian Jiang, Steve Chapin
	BMC Medical Informatics and Decision Making 2015, [Deen access]
TKDE 15	Privacy-Preserving Multi-Keyword Search in Information Networks
	Yuzhe Tang, Ling Liu
	IEEE Transaction of Knowledge and Data Engineering 27(9): 2424-2437 (2015)
CCGrid 15	Deferred Lightweight Indexing for Log-Structured Key-Value Stores
	Yuzhe Tang, Arun Iyengar, Wei Tan, Liana Fong, Ling Liu, Balaji Palanisamy
	IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing 2015: 11-20 Best Paper Award
HPBDC 15	KTV Tree: Interactive Top-K Aggregation on Large Dataset in Cloud
220 10	Yuzhe Tang, Ling Liu, Junichi Tatemura, Hakan Hacigumus
	IEEE International Conference of Distributed Computing Systems Workshops 2015: 136-141
HotCloud 15	Privacy-Preserving Offloading of Mobile App to the Public Cloud
	Yue Duan, Mu Zhang, Heng Yin, Yuzhe Tang
	USENIX Workshop on Hot Topics in Cloud Computing 2015 Acceptance rate=32.8%
TBC 15	Secure Multi-party Computation on Grid Logistic Regression
100 10	Haoyi Shi, Shuang Wang, Wenrui Dai, Yuzhe Tang, Xiaoqian Jiang, LucilaOhno-Machado
	Annual Translational Bioinformatics Conference 2015
ACSAC 14	Lightweight Authentication of Freshness in Outsourced Key-Value Stores
	Yuzhe Tang, Ling Liu, Xin Hu, Jiyong Jang
	USENIX/ACM Annual Computer Security Applications Conference 2014: 176-185
ICDCS 14	Acceptance rate=19.9%
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EDBT 14 JDPD 14 ICDE 14d TPDS 13 Cloud 13	e-PPI: Locator Service in Information Networks with Personalized Privacy Preservation Yuzhe Tang, Ling Liu, Arun Iyengar IEEE International Conference of Distributed Computing Systems 2014: 186-197 Acceptance rate=13% Diff-Index: Differentiated Index in Distributed Log-Structured Data Stores Wei Tan, Sandeep Tata, Yuzhe Tang, Liana Fong International Conference on Extending Database Technology 2014: 700-711 Acceptance rate=20% Anonymizing Continuous Queries with Delay-tolerant Mix-zones on Road Networks Balaji Palanisamy, Ling Liu, Kisung Lee, Shicong Meng, Yuzhe Tang International Journal of Distributed and Parallel Databases 32(1): 91-118 (2014) Outsourcing multi-version key-value stores with verifiable data freshness Yuzhe Tang, Ling Liu, Ting Wang, Xin Hu, Reiner Sailer, Peter Pietzuch IEEE International Conference on Data Engineering 2014: 1214-1217 (Demo paper) Auto-pipelining for Data Stream Processing Yuzhe Tang, Bugra Gedik IEEE Trans. Parallel Distrib. Syst. 24(12): 2344-2354 (2013) Residency Aware Inter-VIM Communication in Virtualized Cloud: Performance Measurement and Analysis Qi Zhang, Ling Liu, Yi Ren, Kisung Lee, Yuzhe Tang, Xu Zhao, Yang Zhou IEEE International Conference on Cloud Computing 2013: 204-211
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Tang

IEEE International Conference on Cloud Computing 2012: 951-958

Best Paper Award

CIKM 11 Privacy Preserving Indexing for eHealth Information Networks

Yuzhe Tang, Ting Wang, Ling Liu, Shicong Meng, Balaji Palanisamy Conference on Information and Knowledge Management 2011: 905-914

Acceptance rate=15% (Full paper)

TPDS 11 A Lightweight Multi-dimensional Index for Complex Queries over DHTs

Yuzhe Tang, Jianliang Xu, Shuigeng Zhou, Wang-Chien Lee, Dingxiong Deng, Yue Wang

IEEE Trans. Parallel Distrib. Syst. 22(12): 2046-2054 (2011)

TKDE 10 LIGHT: A Query-Efficient yet Low-Maintenance Indexing Scheme over DHTs

Yuzhe Tang, Shuigeng Zhou, Jianliang Xu

IEEE Transaction of Knowledge and Data Engineering 22(1): 59-75 (2010)

ICDCS 09 m-LIGHT: Indexing Multi-Dimensional Data over DHTs

Yuzhe Tang, Jianliang Xu, Shuigeng Zhou, Wang-Chien Lee

IEEE International Conference of Distributed Computing Systems 2009: 191-198

Acceptance rate=16%

ICDCS 08 LHT: A Low-Maintenance Indexing Scheme over DHTs

Yuzhe Tang, Shuigeng Zhou

IEEE International Conference of Distributed Computing Systems 2008: 141-151

Patents

2015 Adaptive Auto-pipelining in Stream Processing Applications

Bugra Gedik, Scott A. Schneider, Yuzhe Tang, Kun-lung Wu

US patent granted (US9098350B2)

Teaching

Fall 2022 Spring 2022 Fall 2021	CIS629/FIN629, Blockchain Foundation and Applications CSE384, Introduction to Systems Programming CIS629/FIN629, Blockchain Foundation and Applications
Fall 2020	CIS600/FIN600, Cryptocurrencies and Blockchains
Fall 2019	CIS600/FIN600, Cryptocurrencies and Blockchains
	CIS628/CIS428, Introduction to Applied Cryptography
Spring 2019	CSE384, System Programming
Fall 2018	CIS600/FIN600, Blockchain and Cryptocurrency
Spring 2018	CIS300, Introduction to System Programming
Fall 2017	CIS700, Modern Information Security and Privacy
Spring 2017	CIS/CSE600, Applied Cryptography
	CIS655/CSE661, Advanced Computer Architecture
	CIS423, System Programming
Spring 2016	CIS700/CSE791, Big-Data and Cloud Security, website: [link]
Fall 2015	CIS655/CSE661, Advanced Computer Architecture, website: [link]
Spring 2015	CIS700/CSE791. Distributed Systems in Cloud, website: [link]

Advising

Ph.D. students

Fall 2014

• Yibo Wang: FSE'21 (1st author), IMC'21, CCS'21, CCS'22 Poster (1st author), ConsensusDay'22 (1st author)

CIS655/CSE661, Advanced Computer Architecture (180 students)

- Jiaqi Chen: NDSS'21, IMC'21, FSE'21, Middleware'20
- Xianghong Liu: NDSS'21, IMC'21
- Yuxuan Zhou
- Wanning Ding: Ethereum Protocol Fellowship'22 awardee

Undergraduate students (REU)

• Jack Willis, Eniola Mosaku, Nicholas Sweet

Alumni

- Dr. Kai Li (Ph.D., 2022), Tenure-track Assistant Professor in CS dept. at San Diego State Univ.
 - o 1st-author papers (during Ph.D.): CCS'21, IMC'21, NDSS'21, Middleware'20, etc.
 - o Internships: IBM Research '20, Amazon '21
 - Award: NortonLife Ph.D. fellowship finalist '22

- M.Sc.: Vinutha Karanth (Microsoft), Sencer Burak Somuncuoglu (Chainalysis), Kang Lou, Qi Zhang (CertiK), Katchaguy Areekijseree (PhD at Syracuse Univ.), Hari Krishna Gajarla (Bloomberg)
- B.Sc. (including REU): Zhehu Yuan (Ph.D. at NYU), Qiwu Zou (Cornell Univ.), Congcong Xie (NYU, then Oracle), Adam Piekarski, Jeong Bin Oh (A database startup), Sharell Scott (Google)
- Visiting scholar: Cheng Xu (Postdoc at Simon Fraser Univ.)

Professional Services

Program

BlockDM 21/20/19 (The International Workshop of Blockchain and Data Management, co-

committee chair located with ICDE)

GLSD 20/18 (Great Lake Security Day)

Program committee **IEEE Euro S&P 23** (7th IEEE European Symposium on Security and Privacy)

IEEE ICDCS 23/20/17/15 (43rd/41st/38th/36th IEEE International Conference on Distributed

Computing Systems)

ICCCN 23 (The 32nd International Conference on Computer Communications and Networks)

MetaCom 23 (IEEE International Conference on Metaverse Computing, Networking and

Applications)

IEEE DSC 23/22 (6th/5th IEEE Conference on Dependable and Secure Computing))

SecureComm 22 (EAI International Conference on Security and Privacy in Communication

Networks)

EthiCS 22 (The 1st International Workshop on Ethics in Computer Security)

ICICS 22/21 (The 23rd/24th International Conference on Information and Communications

IEEE MASS 22 (The 19th IEEE International Conference on Mobile Ad-Hoc and Smart

Systems)

WWW 21/20 (30th/29th The Web Conference)

IPDPS 18 (32nd IEEE International Parallel and Distributed Processing) EuroSys 18 (shadow) (The European Conference on Computer Systems) IEEE Cloud 15 (IEEE 8th International Conference on Cloud Computing)

PAIS 16/15 (9th/8th International Workshop on Privacy and Anonymity in the Information

Society)

Journal reviewer

TDSC 22 (IEEE Transactions on Dependable and Secure Computing)

TIFS 22 (IEEE Transactions on Information Forensics and Security)

TKDE 22/17/16/15 (IEEE Transactions on Knowledge and Data Engineering) TPDS 22 (IEEE Transactions on Transactions on Parallel and Distributed Systems)

ToIT 22 (ACM Transactions on Internet Technology) BCRA 22 (BlockChain: Research and Applications)

TNSE 22/21 (IEEE Transactions on Network Science and Engineering)

TCC 22 (IEEE Transactions on Cloud Computing) JPDC 22 (Journal of Parallel and Distributed Computing)

COSE 22 (Computers and Security COSE)

ACM TOCS 17 (ACM Transactions on Computer Systems) ACM ToIT 21 (ACM Transactions on Internet Technology)

IEEE TSC 21/17/16/15 (IEEE Transactions on Services Computing)

IEEE TCC 21/15 (IEEE Transactions on Cloud Computing) JBFT 20 (Journal of Banking and Financial Technology)

IEEE Computer Magazine 17

TWeb 15 (ACM Transactions on the Web)

IEEE TCSVT 14 (IEEE Transactions on Circuits and Systems for Video Technology)

Panel review

NSF panel 16, 20 (twice), 21

Campus services EECS ABET Assessment and Accreditation committee

EECS Faculty Search Committee, EECS ABET Assessment and Accreditation committee

University academic integrity panel, MAE program review

ECS research day poster judge, 22

Internship/Industrial Experience

2022 - Now Avant fund adviser (Part-time), a blockchain investment firm (www.avant.fund) 05/2013-08/2013 Internship at IBM Research (T.J. Watson Lab) at Yorktown Heights, NY USA 05/2012-08/2012 Internship at IBM Research (T.J. Watson Lab) at Yorktown Heights, NY USA

05/2011-08/2011 Internship at IBM Research (T.J. Watson Lab) at Hawthorn, NY USA

05/2010-08/2010 Internship at NEC Labs America at Cupertino, CA USA

01/2009-06/2009 Internship at Microsoft Research Asia at Beijing, China

01/2006-04/2006 Internship at IBM Corp. at Shanghai, China

Honors and Awards

- Ethereum Foundation Academic Grant Awardee, 2022
- Air Force Research Lab (AFRL) Visiting Faculty Research Award, 2017
- Best paper award, 15th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, 2015
- Chinese Government Award for Outstanding Self-financed Students Abroad, 2012
- Best paper award, 5th International Conference on Cloud Computing, 2012
- Outstanding Master Thesis of Shanghai, Shanghai Government, 2010
- Tung's Oriental Scholarship, Tung's Oriental, 2008
- HP Distinguished Chinese Student Scholarship, Hewlett-Packard, 2008
- ICDCS Student Travel Grant, TCDP (IEEE Computer Society), 2008
- Graduate Student Fellowship of Fudan University, 2007-2008 (2 times)
- Outstanding Graduated Student of Fudan University, 2006
- Excellence Award, Tencent Innovation Contest, 2006
- The Peoples Scholarship of Fudan University, 2002-2006 (4 times)
- Chinese Physics Olympiads, First Prize in Hunan Province, 2001

Invited Talks

Research talks

- Understanding and Hardening Decentralized Systems Security in the Wild
 - Notre Dame '22 [link], NUS '22 [link], UK Security and Privacy seminar '22 [ink], Ohio State University '21, University of Louisiana at Lafayette '21 [pdf], Consensus day '21
- Lightweight Data Authentication in Outsourced Key-Value Stores
 - Cornell University '17 [link], Xi'an Jiao Tong University '17, Fudan University '16), Louisiana State University '14
- Searching HIE with Differentiated Privacy Preservation
 - o HealthTech '14, co-located with USENIX Security, San Diego, CA
- Scalable and secure cloud service in big data systems
 - University of Delaware '14, North Kentucky University '14, NEC Lab '14, IBM Research '14, Missouri University of Science and Technology

Panel

• Blockchain Database, VLDB '21 panel [ink].

Lectures to the general public

- Public lecture: "Get Your Head In The Clouds! Cloud Computing: Risks and Rewards"
 - o TACNY Junior Cafe Scientifique, Museum of Science & Technology, Syracuse ('17)
 - NSBE (National Society of Black Engineers) Jr. Science Camp. hosting Grades 7 12 in Syracuse City School District ('17)
- Public lecture: "Blockchain: Applications, Security Promises and Internals"
 - CSIAC ('17), Syracuse University Alumni Event ('21)