

# Yuzhe Tang

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## Academic 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 broadly interested in cyber-security, computer systems, and software engineering. My cyber-security research covers vulnerability discovery, attack detection, attack mitigation, and security measurement of deployed systems.

My current research focuses on blockchain security, blockchain systems, blockchain applications, and blockchain education. I have worked on confidential computing, trusted execution environments, and cloud security.

## Research Funds

- Summary: Grants awarded 11, total amount (Tang's share): \$1.81M

|           |   |
|-----------|---|
| 2022-2025 | CNS Core: Small: One Size doesn't Fit All: Workload-Aware Cost Optimization for Decentralized Applications on Blockchains<br>Yuzhe Tang (Single PI), \$498,624<br>National Science Foundation ( <b>NSF</b> )  |
| 2022-2023 | DoS-secure transaction propagation on Ethereum: Exploit generation and attack detection<br>Yuzhe Tang (single PI), \$84,392<br>Ethereum Foundation  |
| 2021-2024 | Collaborative Research: SaTC: EDU: Developing Instructional Laboratories for Blockchain Security Applications,<br>Yuzhe Tang (PI), Jing Lei, Farzana Rahman, Hongmei Chi.<br>Total: \$399,995, PI Tang's portion: \$340,000<br>National Science Foundation ( <b>NSF</b> ) |
| 2018-2022 | SaTC: Small: External Obliviousness in Trusted Execution Environments<br>Yuzhe Tang (Single PI), \$496,999 + \$16,000<br>National Science Foundation ( <b>NSF</b> )   |
| 2019-2020 | Planning IUCRC Syracuse University: Center for High-Assurance Secure Systems and IoT (CHASSI)<br>Shui-Kai Chin (PI), Yuzhe Tang (Co-PI), \$15,000<br>National Science Foundation ( <b>NSF</b> )   |
| 2018-2020 | SGX-based Key-Management Applications in the Cloud<br>Yuzhe Tang (Single PI), \$9,996<br>Intel Gift   |
| 2017-2018 | Cryptographic Engineering on Modern Trusted Platforms<br>Yuzhe Tang (PI), Wenliang Du (Co-PI), \$300,000<br>National Security Agency ( <b>NSA</b> )   |
| 2017-2017 | Secure Multi-Party Databases by Oblivious Query Translation and Execution<br>Yuzhe Tang (PI), \$13,200<br>Air Force Research Lab Visiting Faculty Research Program  |
| 2015-2016 | Optimizing Privacy-Preserving Analytics in Information Networks<br>Yuzhe Tang (PI), \$69,861<br>Cyber Research Institute (CRI)  |

## Internal Grants

|           |  |
|-----------|--|
| 2021-2023 | Workload-Adaptive Designs for Cost-Effective Decentralized Applications on Blockchains<br>Yuzhe Tang (Single PI), \$21,000,<br>CUSE Grant (Syracuse University Internal Grant) |
| 2018-2020 | On-Campus Blockchain Applications for Education and Beyond<br>Wenliang Du (PI), Yuzhe Tang (Co-PI), \$30,000<br>CUSE Grant (Syracuse University Internal Grant)                |
| 2018-2020 | Efficient Algorithms for Secure, Large-Scale Graph Mining<br>Yuzhe Tang (PI), Sucheta Soundarajan (Co-PI), \$30,000<br>CUSE Grant (Syracuse University Internal Grant)         |

## Publications

- Underline indicates students advised by Dr. Yuzhe Tang

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|-----------------|---|
| ConsensusDay 22 | Towards the Comprehensive Understanding of Ethereum Mempool DoS Security<br><u>Yibo Wang</u> , <u>Kai Li</u> , Yuzhe Tang<br>Consensus Day 22, Co-located with CCS 2022   |
| CCS 22p         | Enabling Cost-Effective Blockchain Applications via Workload-Adaptive Transaction Execution<br><u>Yibo Wang</u> , Yuzhe Tang<br>ACM Conference on Computer and Communications Security (CCS) 2022, Poster   |
| CCS 21          | <i>DETER: Denial of Ethereum's Txpool-based services</i><br><u>Kai Li</u> , <u>Yibo Wang</u> , Yuzhe Tang<br>ACM Conference on Computer and Communications Security (CCS) 2021  |
| IMC 21          | <i>TopoShot: Uncovering Ethereum's Network Topology Leveraging Replacement Transactions</i><br><u>Kai Li</u> , Yuzhe Tang, <u>Jiaqi Chen</u> , <u>Yibo Wang</u> , <u>Xianghong Liu</u><br>ACM Internet Measurement Conference (IMC) 2021<br>Acceptance rate=28%   |
| NDSS 21         | <i>As Strong As Its Weakest Link: How to Break Blockchain DApps at RPC Service</i><br><u>Kai Li</u> , <u>Jiaqi Chen</u> , <u>Xianghong Liu</u> , Yuzhe Tang, XiaoFeng Wang, Xiapu Luo<br>The Network and Distributed System Security Symposium (NDSS) 2021<br>Acceptance rate=15.2%   |
| FSE 21          | <i>iBatch: Saving Ethereum Fees via Secure and Cost-Effective Batching of Smart-Contract Invocations</i><br><u>Yibo Wang</u> , <u>Qi Zhang</u> , <u>Kai Li</u> , Yuzhe Tang, <u>Jiaqi Chen</u> , Xiapu Luo, Ting Chen<br>ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2021<br>Acceptance rate=24.5% |
| Middleware 21i  | <i>Authenticated Key-Value Stores with Hardware Enclaves</i><br><u>Kai Li</u> , Yuzhe Tang, <u>Qi Zhang</u> , Jianliang Xu, <u>Ju Chen</u><br>ACM/IFIP Middleware 2021 (Industrial track)   |
| ToNSE 21        | <i>VFChain: Enabling Verifiable and Auditable Federated Learning via Blockchain Systems</i><br>Zhe Peng, Jianliang Xu, Xiaowen Chu, Shang Gao, Yuan Yao, Rong Gu, Yuzhe Tang<br>IEEE Transactions on Network Science and Engineering (ToNSE) 2021   |
| Middleware 20   | <i>Cost-Effective Data Feeds to Blockchains via Workload-Adaptive Data Replication</i><br><u>Kai Li</u> , Yuzhe Tang, <u>Jiaqi Chen</u> , <u>Zhehu Yuan</u> , <u>Cheng Xu</u> , Jianliang Xu<br>ACM/IFIP Middleware conference 2020<br>Acceptance rate=25.2%  |
| SERIAL 20       | <i>Scalable Log Auditing on Private Blockchains via Lightweight Log-Fork Prevention</i><br>Yuzhe Tang, <u>Kai Li</u> , <u>Yibo Wang</u> , <u>Sencer Burak Somuncuoglu</u><br>Workshop on Scalable and Resilient Infrastructures for Distributed Ledgers 2020, co-located with ACM/IFIP Middleware conference 2020   |
| ICDE 19         | <i>GEM<sup>2</sup>-Tree: A Gas-Efficient Structure for Authenticated Range Queries in Blockchain</i><br>Ce Zhang, Cheng Xu, Jianliang Xu, Yuzhe Tang, Byron Choi<br>IEEE 36th International Conference on Data Engineering (ICDE) 2020<br>Acceptance rate=26.8%   |
| SecureComm19    | <i>Secure Consistency Verification for Untrusted Cloud Storage by Public Blockchains</i><br><u>Kai Li</u> , Yuzhe Tang, Beom Heyn Kim, Jianliang Xu<br>SecureComm 2019  |
| SecureComm19    | <i>Authenticated LSM Trees with Minimal Trust</i><br>Yuzhe Tang, <u>Ju Chen</u> , <u>Kai Li</u><br>SecureComm 2019 (Short paper)  |
| CISSE 19        | <i>Hands-on Labs for Secure Programming on Modern Trusted Platforms</i><br>Yuzhe Tang, Wenliang Du<br>The Colloquium For Information Systems Security Education, 2019   |
| ASONAM 19p      | <i>Computing Node Clustering Coefficients Securely</i>  |

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|                   | K. Areekijseree, Yuzhe Tang, Sucheta Soundarajan<br>IEEE ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2019, Poster  |
| SecureComm18      | <i>Secure and Efficient Multi-Party Directory Publication for Privacy-Preserving Data Sharing</i><br>K. Areekijseree, Ju Chen, Yuzhe Tang, Shuang Wang, Arun Iyengar and B. Palanisamy<br>SecureComm 2018, Acceptance rate=30.6%                                       |
| Cloud 18          | <i>ChainFS: Blockchain-Secured Cloud Storage</i><br>Qiwu Zou, Yuzhe Tang, Ju Chen, Kai Li, Charles Kamoua, Kevin Kwiat, Laurent Njilla<br>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<br><i>A Toolset for Detecting Containerized Application's Dependencies in CaaS Clouds</i><br>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<br><i>Oases: An Online Scalable Spam Detection System for Social Networks</i><br>IEEE Cloud 2018, Acceptance rate=20%   |
| FC 18w            | <i>Lightweight Blockchain Logging for Data-Intensive Applications</i><br>Yuzhe Tang, Zihao Xing, Cheng Xu, Ju Chen, Jianliang Xu<br>The Workshop of Trusted Smart Contract at the International Conference of Financial Cryptography 2018                              |
| TVT 18            | <i>Non-interactive Identity-based Underwater data transmission with Anonymity and Zero-knowledge</i><br>Changsheng Wan, Vir V Phoha, Yuzhe Tang, Aiqun Hu<br>IEEE Transactions on Vehicular Technology 2017  |
| CIC 17            | <i>PADS: Privacy-preserving Auction Design for Allocating Dynamically Priced Cloud Resources</i><br>Jinlai Xu, Balaji Palanisamy, Yuzhe Tang, SD Madhu Kumar<br>IEEE CIC 2017  |
| SOSP 17w          | <i>Strongly Secure and Efficient Data Shuffle on Hardware Enclaves</i><br>Ju Chen, Yuzhe Tang, Hao Zhou<br>The Workshop of Systems Software for Trusted Execution (SysTEX) at ACM SOSP 2017  |
| ICDCS 17p         | <i>Towards Secure Public Directory for Privacy-Preserving Data Sharing</i><br>Amin Fallahi, Xi Liu, Yuzhe Tang, Shuang Wang, Rui Zhang<br>IEEE International Conference on Distributed Computing Systems, Poster   |
| ICDCS 17w         | <i>Social-Aware Decentralization for Efficient and Secure Multi-Party Computation</i><br>Yuzhe Tang, Sucheta Soundarajan<br>The Workshop of Big-Data Privacy and Security at IEEE International Conference on Distributed Computing Systems                            |
| BMC 16            | <i>Secure Multi-party Computation Grid Logistic REgression (SMAC-GLORE)</i><br>Haoyi Shi, Chao Jiang, Wenrui Dai, Xiaoqian Jiang, Yuzhe Tang, Lucila Ohno-Machado and Shuang Wang<br>BMC Medical Informatics and Decision Making [open access]                         |
| SecDev 16         | <i>Towards Building Practical And Secure Multi-Party Databases</i><br>Yuzhe Tang, Wenqing Zhuang<br>IEEE Cyber-security Development Conference 2016 (Abstract)   |
| Bioinformatics 16 | <i>HEALER: Homomorphic computation of ExAct Logistic rEgression for secure rare disease variants analysis in GWAS</i><br>Shuang Wang, Y. Zhang, W. Dai, K. Lauter, M. Kim, Yuzhe Tang, X. Jiang<br>Oxford Journals Bioinformatics, doi: 10.1093/bioinformatics/btv563  |
| BMC 15            | <i>Privacy-preserving GWAS analysis on federated genomic datasets</i><br>Scott D Constable, Yuzhe Tang, Shuang Wang, Xiaoqian Jiang, Steve Chapin<br>BMC Medical Informatics and Decision Making 2015, [open access]   |
| TKDE 15           | <i>Privacy-Preserving Multi-Keyword Search in Information Networks</i><br>Yuzhe Tang, Ling Liu<br>IEEE Transaction of Knowledge and Data Engineering 27(9): 2424-2437 (2015)   |
| CCGrid 15         | <i>Deferred Lightweight Indexing for Log-Structured Key-Value Stores</i><br>Yuzhe Tang, Arun Iyengar, Wei Tan, Liana Fong, Ling Liu, Balaji Palanisamy<br>IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing 2015: 11-20<br><b>Best Paper Award</b> |
| HPBDC 15          | <i>KTV Tree: Interactive Top-K Aggregation on Large Dataset in Cloud</i><br>Yuzhe Tang, Ling Liu, Junichi Tatemura, Hakan Hacigumus<br>IEEE International Conference of Distributed Computing Systems Workshops 2015: 136-141  |
| HotCloud 15       | <i>Privacy-Preserving Offloading of Mobile App to the Public Cloud</i><br>Yue Duan, Mu Zhang, Heng Yin, Yuzhe Tang<br>USENIX Workshop on Hot Topics in Cloud Computing 2015<br>Acceptance rate=32.8%   |
| TBC 15            | <i>Secure Multi-party Computation on Grid Logistic Regression</i><br>Haoyi Shi, Shuang Wang, Wenrui Dai, Yuzhe Tang, Xiaoqian Jiang, LucilaOhno-Machado  |

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| <b>ACSAC 14</b> | Annual Translational Bioinformatics Conference 2015<br><i>Lightweight Authentication of Freshness in Outsourced Key-Value Stores</i><br>Yuzhe Tang, Ling Liu, Xin Hu, Jiyong Jang<br>USENIX/ACM Annual Computer Security Applications Conference 2014: 176-185<br>Acceptance rate=19.9% |
| <b>ICDCS 14</b> | <i>e-PPI: Locator Service in Information Networks with Personalized Privacy Preservation</i><br>Yuzhe Tang, Ling Liu, Arun Iyengar<br>IEEE International Conference of Distributed Computing Systems 2014: 186-197<br>Acceptance rate=13%   |
| <b>EDBT 14</b>  | <i>Diff-Index: Differentiated Index in Distributed Log-Structured Data Stores</i><br>Wei Tan, Sandeep Tata, Yuzhe Tang, Liana Fong<br>International Conference on Extending Database Technology 2014: 700-711<br>Acceptance rate=20%  |
| JDPD 14         | <i>Anonymizing Continuous Queries with Delay-tolerant Mix-zones on Road Networks</i><br>Balaji Palanisamy, Ling Liu, Kisung Lee, Shicong Meng, Yuzhe Tang<br>International Journal of Distributed and Parallel Databases 32(1): 91-118 (2014)   |
| ICDE 14d        | <i>Outsourcing multi-version key-value stores with verifiable data freshness</i><br>Yuzhe Tang, Ling Liu, Ting Wang, Xin Hu, Reiner Sailer, Peter Pietzuch<br>IEEE International Conference on Data Engineering 2014: 1214-1217 (Demo paper)  |
| <b>TPDS 13</b>  | <i>Auto-pipelining for Data Stream Processing</i><br>Yuzhe Tang, Bugra Gedik<br>IEEE Trans. Parallel Distrib. Syst. 24(12): 2344-2354 (2013)  |
| Cloud 13        | <i>Residency Aware Inter-VM Communication in Virtualized Cloud: Performance Measurement and Analysis</i><br>Qi Zhang, Ling Liu, Yi Ren, Kisung Lee, Yuzhe Tang, Xu Zhao, Yang Zhou<br>IEEE International Conference on Cloud Computing 2013: 204-211                                    |
| Cloud 13        | <i>Efficient and Customizable Data Partitioning Framework for Distributed Big RDF Data Processing in the Cloud</i><br>Kisung Lee, Ling Liu, Yuzhe Tang, Qi Zhang, Yang Zhou<br>IEEE International Conference on Cloud Computing 2013: 327-334   |
| MSN 12          | <i>Location Privacy with Road Network Mix-Zones</i><br>Balaji Palanisamy, Ling Liu, Kisung Lee, Shicong Meng, Yuzhe Tang<br>IEEE International Conference on Mobile Ad-hoc and Sensor Networks 2012: 124-131  |
| Cloud 12        | <i>Reliable State Monitoring in Cloud Data Centers</i><br>Shicong Meng, Arun Iyengar, I. Rouvellou, Ling Liu, Kisung Lee, Balaji Palanisamy, Yuzhe Tang<br>IEEE International Conference on Cloud Computing 2012: 951-958   |
|                 | <b>Best Paper Award</b>   |
| <b>CIKM 11</b>  | <i>Privacy Preserving Indexing for eHealth Information Networks</i><br>Yuzhe Tang, Ting Wang, Ling Liu, Shicong Meng, Balaji Palanisamy<br>Conference on Information and Knowledge Management 2011: 905-914<br>Acceptance rate=15% (Full paper)   |
| <b>TPDS 11</b>  | <i>A Lightweight Multi-dimensional Index for Complex Queries over DHTs</i><br>Yuzhe Tang, Jianliang Xu, Shuigeng Zhou, Wang-Chien Lee, Dingxiong Deng, Yue Wang<br>IEEE Trans. Parallel Distrib. Syst. 22(12): 2046-2054 (2011)   |
| <b>TKDE 10</b>  | <i>LIGHT: A Query-Efficient yet Low-Maintenance Indexing Scheme over DHTs</i><br>Yuzhe Tang, Shuigeng Zhou, Jianliang Xu<br>IEEE Transaction of Knowledge and Data Engineering 22(1): 59-75 (2010)  |
| <b>ICDCS 09</b> | <i>m-LIGHT: Indexing Multi-Dimensional Data over DHTs</i><br>Yuzhe Tang, Jianliang Xu, Shuigeng Zhou, Wang-Chien Lee<br>IEEE International Conference of Distributed Computing Systems 2009: 191-198<br>Acceptance rate=16%   |
| <b>ICDCS 08</b> | <i>LHT: A Low-Maintenance Indexing Scheme over DHTs</i><br>Yuzhe Tang, Shuigeng Zhou<br>IEEE International Conference of Distributed Computing Systems 2008: 141-151  |

## Patents

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|------|---|
| 2015 | Adaptive Auto-pipelining in Stream Processing Applications<br>Bugra Gedik, Scott A. Schneider, Yuzhe Tang, Kun-lung Wu<br>US patent granted (US9098350B2) |
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## Teaching

|             |  |
|-------------|--|
| Fall 2022   | CIS629/FIN629, <i>Blockchain Foundation and Applications</i> |
| Spring 2022 | CSE384, <i>Introduction to Systems Programming</i>           |
| Fall 2021   | CIS629/FIN629, <i>Blockchain Foundation and Applications</i> |

|             |  |
|-------------|--|
| Fall 2020   | CIS600/FIN600, <i>Cryptocurrencies and Blockchains</i>   |
| Fall 2019   | CIS600/FIN600, <i>Cryptocurrencies and Blockchains</i><br>CIS628/CIS428, <i>Introduction to Applied Cryptography</i>                 |
| Spring 2019 | CSE384, <i>System Programming</i>  |
| Fall 2018   | CIS600/FIN600, <i>Blockchain and Cryptocurrency</i>  |
| Spring 2018 | CIS300, <i>Introduction to System Programming</i>  |
| Fall 2017   | CIS700, <i>Modern Information Security and Privacy</i>   |
| Spring 2017 | CIS/CSE600, <i>Applied Cryptography</i><br>CIS655/CSE661, <i>Advanced Computer Architecture</i><br>CIS423, <i>System Programming</i> |
| Spring 2016 | CIS700/CSE791, <i>Big-Data and Cloud Security</i> , website: <a href="#">[link]</a>  |
| Fall 2015   | CIS655/CSE661, <i>Advanced Computer Architecture</i> , website: <a href="#">[link]</a>   |
| Spring 2015 | CIS700/CSE791, <i>Distributed Systems in Cloud</i> , website: <a href="#">[link]</a>   |
| Fall 2014   | CIS655/CSE661, <i>Advanced Computer Architecture</i> (180 students)  |

## Advising

### Ph.D. students

- Yibo Wang: *FSE'21 (1st author)*, *IMC'21 (co-author)*, *CCS'22 Poster (1st author)*, *ConsensusDay'22 (1st author)*
- Jiaqi Chen: *NDSS'21*, *IMC'21*, *FSE'21*, *Middleware'20 (co-author)*
- Xianghong Liu: *NDSS'21*, *IMC'21 (co-author)*
- Yuxuan Zhou
- Wanning Ding

### 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.
  - 1st-author papers (during Ph.D.): *CCS'21*, *IMC'21*, *NDSS'21*, *Middleware'20*, etc.
  - 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

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|-------------------------|---|
| Program committee chair | BlockDM 21/20/19 (The International Workshop of Blockchain and Data Management, co-located with ICDE)<br>GLSD 20/18 (Great Lake Security Day)   |
| Program committee       | Euro SP 23 (7th IEEE European Symposium on Security and Privacy)<br>SecureComm 22 (EAI International Conference on Security and Privacy in Communication Networks)<br>EthiCS 22 (The 1st International Workshop on Ethics in Computer Security)<br>IEEE DSC 22 (5th IEEE Conference on Dependable and Secure Computing))<br>ICICS 22/21 (The 23rd/24th International Conference on Information and Communications Security)<br>IEEE MASS 22 (The 19th IEEE International Conference on Mobile Ad-Hoc and Smart Systems)<br>WWW 21/20 (30th/29th The Web Conference)<br>ICDCS 20/17/15 (41st/38th/36th IEEE International Conference on Distributed Computing Systems)<br>IPDPS 18 (32nd IEEE International Parallel and Distributed Processing)<br>EuroSys 18 (shadow) (The European Conference on Computer Systems)<br>IEEE Cloud 15 (IEEE 8th International Conference on Cloud Computing)<br>PAIS 16/15 (9th/8th International Workshop on Privacy and Anonymity in the Information Society) |
| Journal reviewer        | TPDS 22 (IEEE Transactions on Transactions on Parallel and Distributed Systems)<br>TIFS 22 (IEEE Transactions on Information Forensics and Security)<br>ToIT 22 (ACM Transactions on Internet Technology)<br>BCRA 22 (BlockChain: Research and Applications)  |



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|-----------------|---|
|                 | 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)                              |
|                 | IEEE TKDE 17/16/15 (IEEE Transactions on Knowledge and Data Engineering)        |
|                 | 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 Experience

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| 05/2013-08/2013 | IBM Research (T.J. Watson Lab) at Yorktown Heights, NY USA |
| 05/2012-08/2012 | IBM Research (T.J. Watson Lab) at Yorktown Heights, NY USA |
| 05/2011-08/2011 | IBM Research (T.J. Watson Lab) at Hawthorn, NY USA         |
| 05/2010-08/2010 | NEC Labs America at Cupertino, CA USA                      |
| 01/2009-06/2009 | Microsoft Research Asia at Beijing, China                  |
| 01/2006-04/2006 | IBM Corp. at Shanghai, China                               |

## Honors and Awards

- 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

- Blockchain system security
  - NUS ('22) [\[link\]](#), UK Security and Privacy seminar ('22) [\[link\]](#), Ohio State University ('21), University of Louisiana at Lafayette ('21)
- DETER: Denial of Ethereum Txpool Service
  - Consensus day '21
- Lightweight Data Authentication in Outsourced Key-Value Stores
  - Cornell University ('17), Xi'an Jiao Tong University ('17), Fudan University ('16), Louisiana State University ('14)
- Searching HIE with Differentiated Privacy Preservation
  - 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 [\[link\]](#).

### Lectures to the general public

- Public lecture: “Get Your Head In The Clouds! Cloud Computing: Risks and Rewards”
  - 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)