Curriculum Vitae – Tong Zhu

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Short Bios

I am pursuing my Ph.D. degree at the Department of Computer Science & Engineering of Shanghai Jiao Tong University. Previously, I received a Bachelor of Science degree in the field of computer science and technology from the University of Electronic Science and Technology of China in June 2019. My current research interests are mobile security and privacy, especially mobile advertising fraud detection. I published several international conference and journal papers, including ACM CCS ('21, '24)(CCF-A), USENIX Security'23 (CCF-A), ACM/IEEE TON'24 (CCF-A), IEEE ICDCS (CCF-B), DFRWS (CCF-C), and Digital Investigation (SCI). I received ACM CCS'24 Student Travel Grant Award (2024), Outstanding Graduate Student of the University of Electronic Science and Technology of China (2019), and Grand Prize Scholarship (Top 3%) (2018). I have identified and reported multiple security vulnerabilities in various systems. I also serve as the reviewer for academic journals including Peer-to-Peer Networking and Applications (PPNA) and have been hired as a consultant expert for the Service Center for Ecological Security in Brand Marketing at the China Advertising Association.

Education

2019.09 - now   **Shanghai Jiao Tong University, Shanghai, China**

Ph.D., Computer Science and Engineering
Advisor: Professor Haojin Zhu
Area of Study: Mobile Security and Privacy

2015.09 - 2019.06 **University of Electronic Science and Technology of China, Chengdu, China**

B.S., Computer Science and Engineering
Advisor: Professor Ting Chen

Honors & Awards

Sep. 2024   Hired as a consultant expert for the Service Center for Ecological Security in Brand Marketing at the China Advertising Association
Sep. 2024   Student Travel Grant, ACM CCS 2024
Jun. 2019   Outstanding Graduate Student of University of Electronic Science and Technology of China
Dec. 2018   Grand Prize Scholarship (Top 3%)
Oct. 2018   A-level Certificate of Comprehensive Quality for College Students in Sichuan Province
May 2017   Excellent Student Cadre
Dec. 2017   Second Prize Scholarship
Aug. 2017   Second Prize of Mathematical Contest In Modeling in Sichuan Province
Dec. 2016   First Prize Scholarship

Research Interest

- **Mobile Security and Privacy**
  My research interests focus on identifying and addressing new security threats in mobile systems. I

am especially interested in the detection of mobile advertising fraud. I am interested in a set of novel techniques and projects that can improve the security and privacy of mobile systems and have a real-world impact. My research mainly focuses on:

- Static / dynamic analysis on mobile systems such as Android.
- Mobile advertising fraud detection.
- Digital forensics.

Publications

Conference Papers

1. **Tong Zhu**, Chaofan Shou, Zhen Huang, Guoxing Chen, Xiaokuan Zhang, Yan Meng, Shuang Hao, Haojin Zhu. Unveiling Collusion-Based Ad Attribution Laundering Fraud: Detection, Analysis, and Security Implications[C]. ACM 31st Conference on Computer and Communications Security (**ACM CCS'24**, *CCF-A*). ACM, 2024.

2. Lu Zhou, Chengyongxiao Wei, **Tong Zhu**, Guoxing Chen, Xiaokuan Zhang, Suguo Du, Hui Cao, Haojin Zhu. POLICYCOMP: Counterpart Comparison of Privacy Policies Uncovers Overbroad Personal Data Collection Practices[C]. The 32nd USENIX Security Symposium(**USENIX Security '23**, *CCF-A*). USENIX, 2023.

3. **Tong Zhu**, Yan Meng, Haotian Hu, Xiaokuan Zhang, Minhui Xue, Haojin Zhu. Dissecting Click Fraud Autonomy in the Wild[C]. ACM 28th Conference on Computer and Communications Security (**ACM CCS'21**, *CCF-A*). ACM, 2021.

4. Ting Chen, Zihao Li, Yufei Zhang, Xiapu Luo, Ang Chen, Kun Yang, Bin Hu, **Tong Zhu**, Shifang Deng, Teng Hu, Jiachi Chen, Xiaosong Zhang. Dataether: Data exploration framework for ethereum[C]. IEEE 39th International Conference on Distributed Computing Systems (**ICDCS'19**, *CCF-B*). IEEE, 2019, pp.1369-1380.

5. Xiaodong Lin, Ting Chen, **Tong Zhu**, Kun Yang, Fengguo Wei. Automated forensic analysis of mobile applications on Android devices[C]. Digital Forensics Research Workshop (**DFRWS'18**, *CCF-C*). Elsevier, 2018. (The first student author.)

Journal Papers

1. **Tong Zhu**, Zhen Huang, Lu Zhou, Guoxing Chen, Yan Meng, and Haojin Zhu, "Collaborative Ad Fraud Detection in Ad Networks," in IEEE/ACM Transactions on Networking, 2024 (**IEEE/ACM TON**, *CCF-A*, *Major Revision*)

2. Xiaodong Lin, Ting Chen, **Tong Zhu**, Kun Yang, Fengguo Wei. Automated forensic analysis of mobile applications on Android devices[J]. **Digital Investigation**, *SCI*, 2018. 26: p. S59-S66.(The **special issue** of the DFRWS'18. The first student author.)

Patent

1. Haojin Zhu, **Tong Zhu**, Yan Meng. 2022. Mobile advertising click fraud detection method, system, and terminal based on static analysis. CN (**National Invention Patent**) CN113191809B, filed May 7, 2021, and issued August 9, 2022. **Authorized**

2. Haojin Zhu, **Tong Zhu**, Yan Meng, Guoxing Chen. 2024. Collusion-based advertising attribution laundering fraud detection method, system, and terminal based on static analysis. CN (**National Invention Patent**) 2024. **Pending**

Teaching Assistant

Spring 2021   **Network Security**
Department of Computer Science & Engineering,
Shanghai Jiao Tong University

Professional Services

- Peer-to-Peer Networking and Applications (PPNA): Reviewer

Other Information

Reported Vulnerabilities

1. CNVD-2020-31071, High

2. CNVD-2020-31516, Medium

3. CNVD-2020-31517, Medium