Mingming Zhang

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PERSONAL SUMMARY

I am a third-year Ph.D. student from Tsinghua University. I am advised by Haixin Duan as a member of the Network and Information Security Lab (NISL). My interests lie broadly in the areas of security and privacy, measurement study and protocol security.

EDUCATION

Tsinghua University   Sep 2018

Institute for Network Sciences and Cyberspace   Beijing, China

- Ph.D. Student in Network Security
- Advisor: Haixin Duan
- Expected graduation date: June 2023
- GPA: 3.84/4

Nankai University   Sep 2014 - Jun 2018

College of Computer and Control Engineering   Tianjin, China

- B.E. in Information Security / LL.B. (Double Major)
- GPA: 86.386/100 (Top 3%)
- The First Prize Scholarship (Twice)

ACADEMIC AWARDS

First Prize in International Cyber Security Competition (GeekPwn)   2019

IRTF Applied Networking Research Prize   2019

Cybersecurity Scholarship of China Internet Foundation   2018

National Scholarship   2017

PUBLICATIONS

- **[CCS'20] Mingming Zhang**, Xiaofeng Zheng, Kaiwen Shen, Ziqiao Kong, Chaoyi Lu, Yu Wang, Haixin Duan, Shuang Hao, and Baojun Liu. "Talking with Familiar Strangers: An Empirical Study on HTTPS Context Confusion Attacks". The 27th ACM Conference on Computer and Communications Security, Virtual Event, November 2020.

- **[IMC'19]** Chaoyi Lu, Baojun Liu, Zhou Li, Shuang Hao, Haixin Duan, **Mingming Zhang**, Chunying Leng, Ying Liu, Zaifeng Zhang, and Jianping Wu. "An End-to-End, Large-Scale Measurement of DNS-over-Encryption: How Far Have We Come?". The ACM Internet Measurement Conference, Amsterdam, Netherlands, October 2019.

     - IETF/IRTF Applied Networking Research Prize

- **[FOCI'18] Mingming Zhang**, Baojun Liu, Chaoyi Lu, Jia Zhang, Shuang Hao, and Haixin Duan. "Measuring Privacy Threats in China-Wide Mobile Networks". The 8th USENIX Workshop on Free and Open Communications on the Internet, Baltimore, MD, August 2018.

PROJECTS

Analyzing the Security Threats of Shared TLS Certificates   Jan 2019 - Jul 2020

- Finished an empirical study of the HTTPS context confusion attack based on the shared TLS certificates, and demonstrated that TLS certificate sharing provides an opportunity to intercept HTTPS traffic even when websites deploy strict security practices.

Measuring Privacy Threats of HTTP Transparent Proxy Devices   May 2018 - Dec 2018

- Analyzed HTTP traffic interception caused by open HTTP proxies through a collected proxy list.
- Performed a comprehensive measurement study on HTTP transparent proxies in China-wide mobile networks.

PROFESSIONAL EXPERIENCE

QiAnXin Technology Research Institute   Jul 2018 - Present

Research Intern Xihe Network Security Lab   Beijing, China