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教育经历 Education

2017 年至今：博士研究生，网络空间安全

清华大学网络科学与网络空间研究院

导师：吴建平 教授

研究方向：网络安全 (Network security)、互联网测量 (Internet measurement)

2013 至 2017 年：工学学士，信息安全

北京邮电大学网络空间安全学院

成绩排名：2/89

获 2017 年北京市普通高等学校优秀毕业生

学术成果 Publications

◇ 共发表会议论文 13 篇 (其中 8 篇发表于领域国际顶级学术会议)、行业标准 1 项、发明专利 1 项

会议论文 Conference Papers

- [1] **[EthiCS '22]** Y. Zhang, M. Liu, M. Zhang, **Chaoyi Lu**, H. Duan. *Ethics in Security Research: Visions, Reality, and Paths Forward*. To appear in the 1st International Workshop on Ethics in Computer Security. June 2022.
- [2] **[PAM '22]** F. Zhang, **Chaoyi Lu**, B. Liu, H. Duan, Y. Liu. *Measuring the Practical Effect of DNS Root Server Instances: A China-Wide Case Study*. In Proceedings of the 23rd Passive and Active Measurement Conference. March 2022.
- [3] **[CCS '21]** Y. Zhang, B. Liu, **Chaoyi Lu**, Z. Li, H. Duan, J. Li, Z. Zhang. *Rusted Anchors: A National Client-Side View of Hidden Root CAs in the Web PKI Ecosystem*. In Proceedings of the 28th ACM Conference on Computer and Communications Security, November 2021.
◇ 收录于欧洲议会网络犯罪办公室、瑞典国家网络安全响应中心 (CERT-SE) 的安全周报
- [4] **[NDSS '21]** **Chaoyi Lu**, B. Liu, Y. Zhang, Z. Li, F. Zhang, H. Duan, Y. Liu, J. Q. Chen, J. Liang, Z. Zhang, S. Hao, M. Yang. *From WHOIS to WHOWAS: A Large-Scale Measurement Study of Domain Registration Privacy under the GDPR*. In Proceedings of the 28th Network and Distributed System Security Symposium, February 2021.
- [5] **[USENIX Sec '21]** K. Shen, C. Wang, X. Zheng, M. Guo, **Chaoyi Lu**, B. Liu, Y. Zhao, S. Hao, H. Duan, Q. Pan, M. Yang. *Weak Links in Authentication Chains: A Large-scale Analysis of Email Sender Spoofing Attacks*. In Proceedings of the 30th USENIX Security Symposium, August 2021.
- [6] **[CCS '20a]** M. Zhang, X. Zheng, K. Shen, Z. Kong, **Chaoyi Lu**, Y. Wang, H. Duan, S. Hao, B. Liu, M. Yang. *Talking with Familiar Strangers: An Empirical Study on HTTPS Context Confusion Attacks*. In Proceedings of the 27th ACM Conference on Computer and Communications Security, November 2020.
- [7] **[CCS '20b]** Y. Zhang, B. Liu, **Chaoyi Lu**, Z. Li, H. Duan, S. Hao, M. Liu, Y. Liu, D. Wang, Q. Li. *Lies in the Air: Characterizing Fake-base-station Spam Ecosystem in China*. In Proceedings of the 27th ACM Conference on Computer and Communications Security, November 2020.

- [8] [\[USENIX Sec '20\]](#) X. Zheng, [Chaoyi Lu](#), J. Peng, Q. Yang, D. Zhou, B. Liu, K. Man, S. Hao, H. Duan, Z. Qian. *Poison Over Troubled Forwarders: A Cache Poisoning Attack Targeting DNS Forwarding Devices*. In Proceedings of the 29th USENIX Security Symposium, August 2020.
◇ 互联网社区会议报告: ICANN DNS Symposium 2021
- [9] [\[IMC '19\]](#) [Chaoyi Lu](#), B. Liu, Z. Li, S. Hao, H. Duan, M. Zhang, C. Leng, Y. Liu, Z. Zhang, J. Wu. *An End-to-End, Large-Scale Measurement of DNS-over-Encryption: How Far Have We Come?*. In Proceedings of the 19th Internet Measurement Conference, October 2019.
◇ 国际互联网研究任务组应用网络研究奖 (IRTF ANRP) 获奖论文
◇ IMC 会议最佳论文奖提名论文 (比例: 3/39) 和社区贡献奖提名论文 (比例: 2/39)
◇ 互联网社区会议报告: IETF 108 大会、DNS-OARC 31
- [10] [\[EuroS&P '19\]](#) B. Liu, Z. Li, P. Zong, [Chaoyi Lu](#), H. Duan, Y. Liu, S. Alrwais, X. Wang, S. Hao, Y. Jia, Y. Zhang, K. Chen, Z. Zhang. *TrafficStop: Detecting and Measuring Illicit Traffic Monetization Through Large-scale DNS Analysis*. In Proceedings of the 4th IEEE European Symposium on Security and Privacy, June 2019.
- [11] [\[USENIX Sec '18\]](#) B. Liu, [Chaoyi Lu](#), H. Duan, Y. Liu, Z. Li, S. Hao, M. Yang. *Who Is Answering My Queries: Understanding and Characterizing Interception of the DNS Resolution Path*. In Proceedings of the 27th USENIX Security Symposium, August 2018.
◇ 互联网社区会议报告: ACM/IRTF ANRW '19、DNS-OARC 30
- [12] [\[DSN '18\]](#) B. Liu, [Chaoyi Lu](#), Z. Li, Y. Liu, H. Duan, S. Hao, Z. Zhang. *A Reexamination of Internationalized Domain Names: the Good, the Bad and the Ugly*. In Proceedings of the 48th IEEE/IFIP International Conference on Dependable Systems and Networks, June 2018.
- [13] [\[FOCI '18\]](#) M. Zhang, B. Liu, [Chaoyi Lu](#), J. Zhang, S. Hao, H. Duan. *Measuring Privacy Threats in China-Wide Mobile Networks*. Accepted to the 8th USENIX Workshop on Free and Open Communications on the Internet, August 2018.

行业标准 Industrial Standard

- [14] [陆超逸](#), 黄友俊, 张甲, 段海新, 马迪等. 加密域名系统技术要求. 中华人民共和国通信行业标准 (报批稿于 2021 年经中国通信标准化协会公示通过)

发明专利 Patent

- [15] 张一铭, 刘保君, [陆超逸](#), 段海新, 李家琛, 刘武. 一种网络访问安全性检测方法及装置. 中华人民共和国专利 (申请号: 202111284859.6)

奖励荣誉 Awards

2020 年	国际互联网研究任务组应用网络研究奖 (IRTF ANRP)
2020 和 2021 年	清华大学研究生综合一等奖学金
2019 年	ACM IMC 会议最佳论文奖提名、社区贡献奖提名
2019 年	第五届下一代互联网技术创新大赛甲组一等奖
2018 年	IEEE/IFIP DSN 会议学生奖励金 (Student Grant)
2016 年	中国互联网发展基金会网络安全奖学金

学术服务 Services

会议外部审稿: NDSS '22 & '20, ICDCS '21, DSN '20, CCS '19, ESORICS '19, ICICS '19
期刊外部审稿: IEEE TNSM 2020