

陆超逸 Chaoyi Lu

清华大学网络科学与网络空间研究院 博士后

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工作教育经历 Education & Employment

2022 年至今：清华大学，博士后

合作导师：段海新教授

2017 至 2022 年：清华大学，工学博士

导师：吴建平 教授 博士学位论文：《互联网域名体系安全技术测量研究》

获 2022 年清华大学优秀博士学位论文 (比例 222/2420=9.2%)

获 2022 年清华大学优秀博士毕业生 (比例 96/2420=4.0%)

获 2022 年北京市普通高等学校优秀毕业生 (比例 134/2420=5.5%)

2013 至 2017 年：北京邮电大学，工学学士

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 17 篇 (12 篇发表于领域国际顶级学术会议, 7 篇为一/二作者)

◇ 研究主题：域名系统测量分析 [1, 5, 7, 12–15]、域名安全威胁 [2–4, 11]、其他基础设施 [6, 8–10]

会议论文 Conference Papers

- [1] [NDSS '24] M. Liu, Y. Zhang, X. Li, **Chaoyi Lu**, B. Liu, et al. *Understanding the Implementation and Security Implications of Protective DNS Services*. To appear in Proceedings of the 31st Network and Distributed System Security Symposium, February 2024.
- [2] [CCS '23a] W. Xu, X. Li, **Chaoyi Lu**, B. Liu, J. Zhang, et al. *TsuKing: Coordinating DNS Resolvers and Queries into Potent DoS Amplifiers*. To appear in Proceedings of the 30th ACM Conference on Computer and Communications Security, Copenhagen, Denmark, November 2023.
- [3] [CCS '23a] F. Zhang, B. Liu, E. Alowaisheq, J. Chen, **Chaoyi Lu**, et al. *Silence is not Golden: Disrupting the Load Balancing of Authoritative DNS Servers*. To appear in Proceedings of the 30th ACM Conference on Computer and Communications Security, Copenhagen, Denmark, November 2023.
- [4] [USENIX Sec '23] X. Li, **Chaoyi Lu**, B. Liu, Q. Zhang, Z. Li, et al. *The Maginot Line: Attacking the Boundary of DNS Caching Protection*. To appear in Proceedings of the 32nd USENIX Security Symposium, Anaheim, CA, USA, August 2023.
- [5] [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.
- [6] [CCS '21] Y. Zhang, B. Liu, **Chaoyi Lu**, Z. Li, H. Duan, et al. *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.

- [7] **[NDSS '21]** Chaoyi Lu, B. Liu, Y. Zhang, Z. Li, F. Zhang, et al. *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.
◇ 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
- [8] **[USENIX Sec '21]** K. Shen, C. Wang, X. Zheng, M. Guo, Chaoyi Lu, et al. *Weak Links in Authentication Chains: A Large-scale Analysis of Email Sender Spoofing Attacks*. In Proceedings of the 30th USENIX Security Symposium, August 2021.
- [9] **[CCS '20a]** M. Zhang, X. Zheng, K. Shen, Z. Kong, Chaoyi Lu, et al. *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.
- [10] **[CCS '20b]** Y. Zhang, B. Liu, Chaoyi Lu, Z. Li, H. Duan, et al. *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.
- [11] **[USENIX Sec '20]** X. Zheng, Chaoyi Lu, J. Peng, Q. Yang, D. Zhou, et al. *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
- [12] **[IMC '19]** Chaoyi Lu, B. Liu, Z. Li, S. Hao, H. Duan, et al. *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
- [13] **[EuroS&P '19]** B. Liu, Z. Li, P. Zong, Chaoyi Lu, H. Duan, et al. *TraffickStop: 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.
- [14] **[USENIX Sec '18]** B. Liu, Chaoyi Lu, H. Duan, Y. Liu, Z. Li, et al. *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
- [15] **[DSN '18]** B. Liu, Chaoyi Lu, Z. Li, Y. Liu, H. Duan, et al. *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.

工作组会议论文 Workshop Papers

- [16] **[EthiCS '22]** Y. Zhang, M. Liu, M. Zhang, Chaoyi Lu, H. Duan. *Ethics in Security Research: Visions, Reality, and Paths Forward*. Accepted to the 1st International Workshop on Ethics in Computer Security. June 2022.
◇ 最佳学生论文奖（Best Student Paper）获奖论文（比例：1/5）
- [17] **[FOCI '18]** M. Zhang, B. Liu, Chaoyi Lu, J. Zhang, S. Hao, et al. *Measuring Privacy Threats in China-Wide Mobile Networks*. Accepted to the 8th USENIX Workshop on Free and Open Communications on the Internet, August 2018.

标准专利 Standards & Patents

[18] 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 (项目号: 2020-1877T-YD, 报批稿于 2021 年经中国通信标准化协会公示通过)

课程讲授 Teaching

清华大学本研课程

2023 年夏	网络安全攻防实践 (实验课程)	联合主讲
2020 年秋	网络空间安全基础与前沿 (研究生专业基础课)	助教
2019 年秋	计算机网络原理 (本科生专业基础课)	助教
2019 年春	计算机网络安全技术 (研究生专业课)	助教

其他课程讲座

2022 年夏	DataCon 特训夏令营 — 互联网域名系统安全专题	主讲
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学术和社区服务 Services

互联网社区活动

ICANN 2023 亚太地区互联网域名系统论坛	圆桌讨论主持人, 分论坛组织者
教育网 (CERNET) 2023 年 DNS 安全技术培训会	主讲

学术会议审稿人

SecureComm '23

学术会议、期刊外部审稿人

会议: RAID '23, NDSS '22 & '20, ICDCS '21, DSN '20, CCS '19, ESORICS '19, ICICS '19

期刊: IEEE TNSM 2020

工作组会议: WPES '21, IoT S&P '18, RESEC '18

奖励荣誉 Awards

2022 年	北京市优秀毕业生、清华大学优秀博士毕业生
2022 年	清华大学优秀博士学位论文
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