# 陆超逸 Chaoyi Lu

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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

# 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]
- ◇ 获奖情况: 国际互联网研究任务组应用网络研究奖 [12]、ACM CCS 杰出论文奖 [3]

#### 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.* 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*. In Proceedings of the 30th ACM Conference on Computer and Communications Security, Copenhagen, Denmark, November 2023.
  - ◇ 互联网社区会议报告: DNS-OARC 41
- [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. In Proceedings of the 30th ACM Conference on Computer and Communications Security, Copenhagen, Denmark, November 2023.
  - ◇ ACM CCS 杰出论文奖 (Distinguished Paper Award) 获奖论文 (比例: 17/234)
  - ◇ 互联网社区会议报告: DNS-OARC 41、ICANN APAC DNS Forum 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.* 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.
  - ◇ 互联网社区会议报告: ICANN APAC DNS Forum 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、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

## 学术和社区服务 Services

### 互联网社区活动

ICANN 2023 亚太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

2023年	ACM CCS 会议杰出论文奖
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