## Shuai Hao

Postdoctoral Researcher

Center for Applied Internet Data Analysis (CAIDA) University of California San Diego 9500 Gilman Dr. #0505, La Jolla, CA 92093-0505 (858) 534-5160 haos@caida.org www.caida.org/~haos

Research	Networking and Security Internet-Wide Vulnerability and Security Internet Infrastructure (Domain Name System, Content Delivery Networks, etc.) Internet Measurement, Topology, and Routing DDoS Attack and Defense Network Intrusion Detection System Web Security and Privacy
Education	Ph.D. in Computer Science · 2011 - 2017  College of William and Mary
	M.S. in Computer Science · 2007 - 2010 <b>Beijing University of Posts and Telecommunications</b> Beijing, China
	B.Eng. in Computer Science · 2003 - 2007  North China Electric Power University
Experience & Appointments	Postdoctoral Researcher,  Center for Applied Internet Data Analysis (CAIDA),  University of California, San Diego (UCSD)
	Research Intern, <b>NEC Laboratories America</b>
	Ph.D. Candidate, Research Assistant, Teaching Assistant,  College of William and Mary
	• Visiting Ph.D. Student, <b>University of Delaware</b>
	Research Intern, <b>HP Labs China</b>
	Visiting Researcher, <b>Tsinghua University</b> Beijing, China Department of Computer Science · Supervisor: Dr. Ke Xu 2010–2011

## **Publications**

- [USENIX Security'18] **Shuai Hao**, Yubao Zhang, Haining Wang, and Angelos Stavrou. **End- Users Get Maneuvered: Empirical Analysis of Redirection Hijacking in Content Delivery Networks**, in *the 27th USENIX Security Symposium (USENIX Security)*, Baltimore, MD, August 2018. (Acceptance Rate: 100/524 = 19.1%)
- [DSN'18] Lin Jin, Shuai Hao, Haining Wang, and Chase Cotton. Your Remnant Tells Secret: Residual Resolution in DDoS Protection Services, in the 48th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), Luxembourg City, Luxembourg, June 2018. (Acceptance Rate: 62/232 = 26.7%)
- [INFOCOM'18] **Shuai Hao\***, Haitao Xu\*, Alparslan Sari, and Haining Wang (\*co-first authors). **On the Privacy Implications of Email Tracking**, in *IEEE INFOCOM*, Honolulu, HI, April 2018. (Acceptance Rate: 309/1606 = 19.2%)
- [Access'18] Kun Xie, Xiaohong Huang, Shuai Hao, and Maode Ma. Distributed Power Saving for Large-Scale Software-Defined Data Center Networks, in *Journal of IEEE Access*, January 2018.
- [SIGCOMM CCR'17] Shuai Hao and Haining Wang. Exploring Domain Name Based Features on the Effectiveness of DNS Caching, in ACM SIGCOMM Computer Communication Review (CCR), Volume 47 Issue 1, January 2017.
- [CCS'16] Daiping Liu, **Shuai Hao**, and Haining Wang. **All Your DNS Records Point to Us:**Understanding the Security Threats of Dangling DNS Records, in the 23rd ACM Conference on Computer and Communications Security (CCS), Vienna, Austria, October 2016. (Acceptance Rate: 137/831 = 16.5%)
- [Access'16] Kun Xie, Xiaohong Huang, **Shuai Hao**, Maode Ma, Pei Zhang, and Dingyuan Hu. E<sup>3</sup>MC: Improving Energy Efficiency via Elastic Multi-Controller SDN in Data Center Networks, in *Journal of IEEE Access*, October 2016.
- [ICNP'15] **Shuai Hao**, Haining Wang, Angelos Stavrou, and Evgenia Smirni. **On the DNS Deployment of Modern Web Services**, in *the 23rd IEEE International Conference on Network Protocols (ICNP)*, San Francisco, CA, November 2015. (Acceptance Rate: 38/190 = 20.0%; *Best Paper Nominee*)
- Shuai Hao, Xiaohong Huang, and Yan Ma. A Simple Packet Authentication Mechanism Based on Stateless Core Approach, in Workshop on Management of Emerging Networks and Services, IEEE Globecom, Miami, FL, 2010.
- Shuai Hao, Xiaohong Huang, and Yan Ma. Application QoS for Video: Benchmarking, Control Strategies and Business Systems, in the 5th IEEE International Conference on Wireless Communications, Networking and Mobile Computing, Beijing, China, 2009.

Professional Activities

Conference/Journal Reviewer

ACM IMC '18 (Shadow PC)

ACM CCS '17 '18

IEEE INFOCOM '14 '15 '16 '17 '18

IEEE CNS '15 '18

IEEE/IFIP DSN '14 '15 '16 '17

ACM IWSPA '17 IEEE HASE '17 SECRYPT '16 SecureComm '15 '16 IEEE Security & Privacy (Oakland) '15

IEEE/ACM Transactions on Networking (ToN)
ACM Transactions on Privacy and Security (Formerly TISSEC)
IEEE Transactions on Information Forensics and Security (TIFS)
Journal of Computer Communications (ComCom)
Journal of Communications and Networks (JCN)
Journal of Security and Communication Networks
International Journal of Distributed Sensor Networks
IEEE Security & Privacy Magazine

## Talks and **Presentations**

Invited Talk, CAIDA, UC San Diego	.Sep.	2018
Conference Talk, USENIX Security'18, Baltimore, MD	Aug.	2018
Security Group Luncheon, CSE Department, UC San Diego	. Apr.	2018
Seminar Series Talk, ECE Department, University of Delaware	. Sep.	2016
Conference Talk, IEEE ICNP'15, San Francisco, CA	Nov.	2015