KYLE GRAHAM SCHOMP

364 Riverway, #26 Boston, MA 02115 610-563-5473 https://kyle.schomp.info/ kyle.schomp@gmail.com

RESEARCH INTERESTS

I am a computer scientist with a specialization in distributed systems and networking. My current focus is on Internet measurement and privacy and security, specifically pertaining to the Domain Name System in both present use and potential future directions. Previously, I focused on transport protocols and congestion control in mobile networks and transport layer security.

EDUCATION

Case Western Reserve University	2010 - 2016
Ph.D. in Computer Science	Cleveland, OH
• Dissertation: Complexity and Security of the Domain Name S	lystem.
• Advisor: Michael Rabinovich	
Case Western Reserve University	2008 - 2010
M.S. in Computer Science	Cleveland, OH
Thesis: Dynamic TCP Proxies: Coping with Mobility and DisAdvisor: Michael Rabinovich	advantaged Hosts in MANETs.
Case Western Reserve University	2002 - 2006
B.S. in Computer Science	Cleveland, OH
APPOINTMENTS	
Performance Engineer, Senior	February 2016 – Present
Akamai Technologies, Inc.	Boston, MA
Craduate Student Pessanahan	June 2015 September 2015
International Computer Science Institute	Cleveland, OH
	·····, · · ·
Research Assistant	August 2010 – May 2015
Case Western Reserve University	Cleveland, OH
Possanah Intonghin	Soptember 2014 December 2014
Telefónica I+D	Barcelona Spain
Teaching Assistant	August 2010 – December 2012
Case Western Reserve University	Cleveland, OH
• Courses: Computer Networks, Analysis of Algorithms, and Da	ata Structures
Programmer	September 2006 – July 2000
Game Communications / TumeFrag	Cleveland OH
same same same same same same same same	

- Schomp, K., M. Rabinovich, & M. Allman. "Towards a Model of DNS Client Behavior." In Passive and Active Measurement Conference (PAM), pp. 263-275. Springer International Publishing, 2016.
- Varvello, M., K. Schomp, D. Naylor, J. Blackburn, A. Finamore, & K. Papagiannaki. "Is the Web HTTP/2 Yet?." In *Passive and Active Measurement Conference (PAM)*, pp. 218-232. Springer International Publishing, 2016.
- Naylor, D., K. Schomp, M. Varvello, I. Leontiadis, J. Blackburn, D. Lopez, K. Papagiannaki, P. Rodriguez, & P. Steenkiste. "multi-context TLS (mcTLS): Enabling Secure In-Network Functionality in TLS." In *Proceedings of the Conference of the ACM Special Interest Group on Data Communication (SIGCOMM)*, pp. 199-212. ACM, 2015.
- Schomp, K., M. Allman, & M. Rabinovich. "DNS resolvers considered harmful." In Proceedings of the ACM Workshop on Hot Topics in Networks (HotNets), pp. 16-22. ACM, 2014.*
- Schomp, K., T. Callahan, M. Rabinovich, & M. Allman. "Assessing DNS vulnerability to record injection." In *Passive and Active Measurement Conference (PAM)*, pp. 214-223. Springer International Publishing, 2014.*
- Schomp, K., T. Callahan, M. Rabinovich, & M. Allman. "On measuring the client-side DNS infrastructure." In *Proceedings of the Internet Measurement Conference (IMC)*, pp. 77-90. ACM, 2013.*

*gave the conference talk

NON-CONFERENCE TALKS

- Cisco FAST Seminar. "mcTLS: Enabling Secure In-Network Functionality in TLS." September 2015.
- North American Network Operators Group. "DNS Record Injection Attacks in Home Routers." June 2014. https://www.youtube.com/watch?v=KgdVcHhMOWw.

RELEASED DATASETS

- Schomp, K., T. Callahan, M. Rabinovich, & M. Allman. "Survey of DNS vulnerability mitigations deployment." http://dns-scans.eecs.cwru.edu/.
- Schomp, K., T. Callahan, M. Rabinovich, & M. Allman. "Measurements of the structure and caching behavior of the DNS resolver infrastructure." http://dns-scans.eecs.cwru.edu/.

AWARDS & HONORS

- Worchester Polytechnic Institute STEM Faculty Launch Program (September 2015)
- U.S. Department of Education GAANN Fellowship (August 2010 July 2013)
- Internet Measurement Conference Travel Grant (October 2013)
- President's Scholarship of Case Western Reserve University (August 2002 May 2006)

PROFESSIONAL ACTIVITIES

- Graduate student judge for Case Western Reserve University Research ShowCASE, 2013 and 2014.
- Peer reviewer for:

- IEEE/ACM Transactions on Networking
- ACM Transactions on the Web
- IET Information Security