**BIOGRAPHICAL SKETCH**

**Thomas M. Moyer**

Department of Software and Information Systems

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**(a) Professional Preparation**

The Pennsylvania State University (University Park, PA) Comp. Eng. B.S., 2006

The Pennsylvania State University (University Park, PA) Comp. Sci. and Eng. M.S., 2009

The Pennsylvania State University (University Park, PA) Comp. Sci. and Eng. Ph.D., 2011

**(b) Appointments**

2017- Present Assistant Professor, Department of Software and Information Systems,

University of North Carolina Charlotte

2011- 2017 Technical Staff, Secure Resilient Systems and Technology Group, MIT Lincoln Laboratory

2007-2011 Research Assistant, Department of Computer Science and Engineering, The Pennsylvania State University

**(c) Products**

**(i) Products Most Closely Related to Project**

1. Adam Bates, Kevin Butler, Alin Dobra, Brad Reaves, Patrick Cable, Thomas Moyer, and Nabil Schear. Transparent Web Service Auditing via Network Provenance Functions. In Proceedings of the 26th International Conference on World Wide Web, WWW ’17, April 2017. http://papers.www2017.com.au.s3-website-ap-southeast-2.amazonaws.com/proceedings/p887.pdf
2. Adam Bates, Dave Tian, Kevin R.B. Butler, and Thomas Moyer. Trustworthy Whole-System Provenance for the Linux Kernel. In 24th USENIX Security Symposium (USENIX Security 15), Washington, D.C., August 2015. USENIX Association. https://www.usenix.org/system/files/conference/usenixsecurity15/sec15-paper-bates.pdf
3. Thomas Moyer, Patrick T. Cable, Karishma Chadha, Robert Cunningham, Nabil Schear, Warren Smith, Adam Bates, Kevin Butler, Frank Capobianco, and Trent Jaeger. Leveraging Data Provenance to Enhance Cyber Resilience. In 1st IEEE Cybersecurity Development (SecDev), November 2016. http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7839803
4. Thomas Moyer and Vijay Gadepally. High-throughput Ingest of Data Provenance Records into Accumulo. In 2016 IEEE High Performance Extreme Computing Conference, HPEC, September 2016. https://thomasmoyer.org/pubs/mg2016.pdf
5. W. U. Hassan, A. Bates, and T. Moyer, “Towards Scalable Cluster Auditing through Grammatical Inference over Provenance Graphs,” In Network and Distributed System Security Symposium, NDSS 2018, 2018. https://thomasmoyer.org/pubs/hbm2018.pdf

**(ii) Other Significant Products**

1. Kevin Butler, Stephen McLaughlin, Thomas Moyer, and Patrick McDaniel. New Security Architectures Based on Emerging Disk Functionality. IEEE Security & Privacy Magazine, September 2010. http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5456358
2. William Enck, Thomas Moyer, Patrick McDaniel, Subhabrata Sen, Panagiotis Sebos, Sylke Spoerel, Albert Greenberg, Yu-Wei Eric Sung, Sanjay Rao, and William Aiello. Configuration Management at Massive Scale: System Design and Experience. IEEE Journal on Selected Areas in Communications (JSAC), April 2009. http://www.patrickmcdaniel.org/pubs/jsac09.pdf
3. Boniface Hicks, Sandra Rueda, Dave King, Thomas Moyer, Joshua Schiffman, Yogesh Sreenivasan, Patrick McDaniel, and Trent Jaeger. An Architecture for Enforcing End-to-End Access Control Over Web Applications. In Proceedings of the 2010 Symposium on Access Control Models and Technologies, SACMAT ’10, June 2010. http://delivery.acm.org/10.1145/1810000/1809870/p163-hicks.pdf?ip=152.15.112.186&id=1809870&acc=ACTIVE%20SERVICE&key=A79D83B43E50B5B8%2E48786266F2419CCD%2E4D4702B0C3E38B35%2E4D4702B0C3E38B35&CFID=975035894&CFTOKEN=74948167&\_\_acm\_\_=1503337931\_0321133ad65456f23e2f2b8caead2f5a
4. Thomas Moyer, Kevin Butler, Joshua Schiffman, Patrick McDaniel, and Trent Jaeger. Scalable Web Content Attestation. IEEE Transactions on Computers, 61(5):686–699, May 2012. http://ieeexplore.ieee.org/abstract/document/5740848/
5. Joshua Schiffman, Thomas Moyer, Trent Jaeger, and Patrick McDaniel. Network-based Root of Trust for Installation. IEEE Security & Privacy Magazine, January 2011. http://www.cse.psu.edu/~trj1/papers/ieee-sp11-schiffman.pdf

**(d) Synergistic Activities**

1. Program Committee, Annual Computer Security Applications Conference (2012-2016).
2. Program Committee, International Workshop on Theory and Practice of Provenance (2017).
3. Program Committee, IEEE Secure Development Conference (2017).
4. Mentor, MIT Lincoln Laboratory Summer Research Program; 7 students total (2012-2017).