

William Clay Moody

CONTACT INFORMATION

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EDUCATION

Clemson University, Clemson, South Carolina USA

PhD, Computer Science, May 2015

- Dissertation Title: “Designing, Building, and Modeling Maneuverable Applications within Shared Computing Resources”
- Advisor: Amy W. Apon

BS, Computer Engineering, December 1998

North Carolina State University, Raleigh, North Carolina USA

MS, Computer Networking, May 2009

HONORS AND AWARDS

Symantec Higher Education Cyber Security Challenge, 2017 Winning Team
United States Army - All-Army Cyberstakes Online, 2016 Top Field Grade Officer
Clemson University - Outstanding Computer Science Ph.D. Student, 2015
Intelligence National Security Alliance - Finalist, Sidney D. Drell Academic Award, 2012
United States Army Graduate (Ph.D.) Fellowship 2013
United States Army Graduate (M.S.) Fellowship 2007
United States Army ROTC Distinguished Military Graduate, 1998
United States Army ROTC Scholarship, 1995

ACADEMIC EXPERIENCE

United States Military Academy, Assistant Professor, Electrical Engineering and Computer Science, West Point, New York USA (Jun 2015 - July 2019)

Deputy Program Director

- Information Technology Program (Fall 2016 - Spring 2018)

Course Director and Instructor

- CS481 - Operating Systems (Fall 2016, Fall 2017, Fall 2018)
- IT350 - Network Engineering and Management (Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018)

Instructor

- IT105 - Introduction to Computing and Information Technology (Fall 2015, Spring 2016)
- CS489 - Independent Study (Fall 2016, Spring 2018)

Coach

- Cadet Competitive Cyber Team (Spring 2016 - Spring 2019)
- Cyber Defense Exercise (Spring 2017)
- NSA Cyber Exercise (Spring 2018)

Clemson University, Guest Lecturer, Clemson, South Carolina, USA (Aug 2012 - Dec 2014)

JOURNAL ARTICLES

WC Moody and Amy Apon. “Maneuverable Applications: Advancing Distributed Computing”, *Cyber Defense Review*, Volume 2, Number 2 Fall 2017. (to appear)

CONFERENCE
PAPERS

Ovidiu-Gabriel Baciú-Ureche, Carlie Sleeman, **WC Moody**, and Suzanne J. Matthews. 2019. “The Adventures of ScriptKitty: Using the Raspberry Pi to Teach Adolescents about Internet Safety.” *In Proceedings of the 20th Annual SIG Conference on Information Technology Education (SIGITE ’19)*. ACM, New York, NY, USA, 118-123.

John Chamberlin, Jason Hussey, Benjamin Klimkowski, **WC Moody**, and Christopher Morrell. “The Impact of Virtualized Technology on Undergraduate Computer Networking Education”, *SIG-ITE’17, Information Technology Education, 18th Annual Conference on*; 4-7 Oct. 2017

WC Moody, Hongxin Hu, and Amy W. Apon. “Defensive maneuver cyber platform modeling with stochastic petri nets”. In *Collaborative Computing: Networking, Applications and Worksharing (Collaboratecom), 2014 10th International Conference on*, 2014.

WC Moody, Jason Anderson, Kuang-Ching Wang, and Amy Apon. “Reconfigurable network testbed for evaluation of datacenter topologies.” In *Proceedings of the Sixth International Workshop on Data Intensive Distributed Computing, DIDC â2014*, pages 11, New York, NY, USA, 2014. ACM.

Judson Dressler, **WC Moody**, Jason Koepke, and Calvert L. III Bowen. “Operational Data Classes for Establishing Situational Awareness in Cyberspace.” In *Cyber Conflict (CyCon), 2014 6th International Conference on*, pages 175-185, June 2014.

WC Moody, Linh Bao Ngo, Edward Duffy, and Amy Apon. “JUMMP: Job Uninterrupted Maneuverable MapReduce Platform”. In *2013 IEEE International Conference on Cluster Computing (CLUSTER)*, pages 1, September 2013.

CONFERENCE
PRESENTATIONS

WC Moody, Carlie Sleeman, “The Adventures of ScriptKitty: Using the Raspberry Pi to Teach Adolescents about Internet Safety.” *20th Annual Special Interest Group for Information Technology Education, SIGITE 2019*, Tacoma, WA, October 4, 2019

WC Moody, “Reconfigurable network testbed for evaluation of datacenter topologies” *Sixth International Workshop on Data Intensive Distributed Computing, DIDC 2014*, Vancouver, CA, June 25, 2014

Judson Dressler, **WC Moody**, “Operational Data Classes for Establishing Situational Awareness in Cyberspace” *2014 6th International Conference on Cyber Conflict (CyCon)*, Tallinn, Estonia, June 5, 2014

WC Moody, “HOFESAC: Holistic Operational Framework for Establishing Situational Awareness in Cyberspace” *2013 Symposium for Visualization of Cyberspace Security (VizSec13)*, October 14, 2013, Atlanta, GA

WC Moody, “JUMMP: Job Uninterrupted Maneuverable MapReduce Platform”, *IEEE International Conference on Cluster Computing (CLUSTER)* September 25, 2013, Indianapolis, IN PDF

WC Moody, “Cyberspace Situational Awareness for the United States Cyber Command Joint Operations Center”, *MIT / Lincoln Laboratory Cyber and Netcentric Workshop*, July 13, 2011, Lexington, MA

WC Moody, “Current Operations of the United States Cyber Command”, *USMA, Department of Electrical Engineering and Computer Science Seminar Series*, November 5, 2010, West Point, NY

POSTERS

O-G Baciú-Ureche, C. Sleeman, K. Scott, **WC Moody**, and S. Matthews. “The Adventures of ScriptKitty: Teaching Middle School Students Cyber Awareness with Comics on the Raspberry Pi.”

50th ACM Technical Symposium on Computer Science Education (SIGCSE '19). February 27 - March 2, 2019, Minneapolis, MN

WC Moody, A. Apon, "Towards a Framework for Building Maneuverable Applications" *PhD Forum of the 28th IEEE International Parallel & Distributed Processing Symposium*, May 19-23, 2014, Phoenix, AZ

WC Moody, A. Apon, "Towards a Framework for Building Maneuverable Applications" *Clemson Graduate Research and Discovery Symposium* April 4, 2014, Clemson, SC

J. Anderson, **WC Moody**, D. Wagenseller, K.-C. Wang, A. Apon, "Using SDN to Visualize the Network Behavior of MapReduce", *Conference of Research Experiences for Undergraduate Students Scholarship*, Oct 28, 2013, Washington D.C.

CONFERENCE
PANELS

WC Moody, "Educating the Cyber Force of 2050", Moderator, *Mad Scientist Conference*, West Point, New York, September 13, 2016

WC Moody, "Operational and Legal Considerations for Cyberwar", Member, *2014 6th International Conference of Cyber Conflict*, Tallinn, Estonia, June 6, 2014

PROFESSIONAL
EXPERIENCE

United States Army

Cyber Operations Officer

July 2015 - Present

Lead, plan, and direct both defensive and offensive cyberspace maneuvers and effects operations in and through the cyberspace domain.

Positions: Assistant Professor, Research Scientist

Ranks: Major - Lieutenant Colonel

Telecommunication Systems Engineer

May 2007 - July 2015

Plan, engineer, test and validate the installation, operation, maintenance and protection of Army telecommunication systems and networks using existing and future military and commercial information technologies.

Positions: Information Systems Management Officer, Command Duty Officer, Cyber Defense Planner, Cyber Capabilities Engineer

Ranks: Captain - Major

Signal Corps Officer

December 1998 - May 2007

Provide seamless, secure, continuous and robust communications networks and information services support at all levels from sustaining military bases to forward-deployed fighting forces in support of Army, Joint, Combined, and Coalition operations worldwide. Lead and manage Signal organizations, forces and operations that enable globally-dispersed, network-centric warfare.

Positions: Platoon Leader, Company Executive Officer, Battalion Assistant S-3, and Battalion S-6.

Ranks: Second Lieutenant - Captain

CERTIFICATIONS

Certified Information Systems Security Professional (CISSP) , certificate number: 397584, since 2011