ANITA D'AMICO, PHD

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KEYNOTES & EDITORSHIPS

- "Human Factors that Influence Secure Code Development," BSides Long Island Keynote, January 26, 2019.
- "Application Security Testing: Securing the Attacker's Favorite Entry Point - Your Software," Keynote presentation, Association for Information Technology Professionals, June 22, 2016.
- Guest Editor, Journal of Cognitive Engineering and Decision Making, Special issue on Cyber Security Decision Making, 2014 - 2015.
- "Cybersecurity: Critical Insights," RegEd Conference for Financial Services, May 4, 2015.
- "Cyber Security Decision Making in the 20-Tweens," 10th International Conference on Naturalistic Decision Making, Orlando, FL, June 1, 2011.
- "The Role of Visualization in Cyber Conflict," Presented to Cyber Conflict Studies Association, Logan, Utah, June 2007.
- "Cyber Network Defense Situational Awareness: Technologies for Correlating and Visualizing Security Event Data," Graduate Student Computer Science Research Day at State University of New York at Stony Brook, May 7, 2004.

PUBLICATIONS & CONFERENCE PROCEEDINGS (AS EITHER D'AMICO OR BEADON)

PEER-REVIEWED PAPERS, PUBLICATIONS & BOOKS

- D'Amico, A. and Mackey, T. (2023) "Elements of an Effective Software Supply Chain Strategy," Information Week, February 21, 2023
- D'Amico, A. (2023) "Building a Better SBOM." Dark Reading, April 24, 2023
- D'Amico, A. (2020) "5 Human Factors that Affect Secure Software Development," Dark Reading, October 27, 2020
- Horn, C. and D'Amico, A. (2019) "Measuring Application Security," in Advances in Human Factors in Cybersecurity, Springer, pp. 44-55.
- Horn, Christopher and D'Amico, A. (2018) "Measuring Application Security," Applied Human Factors and Ergonomics, 4th International Conference on Human Factors in Cybersecurity, 21-25 July 2018.
- D'Amico. (2016). "Cyber UL Certification: A Time-saver for Application Security Testers?" TechBeacon, November 2016.
- Buchanan, L., D'Amico, A., & Kirkpatrick, D. (2016) "Mixed method approach to identify analytic questions to be visualized for military cyber incident handlers," In Visualization for Cyber Security (VizSec), 2016 IEEE Symposium on (pp. 1-8). IEEE.
- D'Amico, A, Buchanan, L., Kirkpatrick, D., and Walczak, P. (2016) "Cyber Operator Perspectives on Security Visualization," In: Nicholson, D. (eds) Advances in Human Factors in Cybersecurity. Advances in Intelligent Systems and Computing, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-319-41932-9_7
- D'Amico, A., & Roth, E. M. (2015). Introduction to Special Issue of the Journal of Cognitive Engineering and Decision Making Special Issue Focus Cybersecurity Decision Making. Journal of Cognitive Engineering and Decision Making, 9(2), 115-116.
- D'Amico, A., O'Brien, B., and Larkin, M. (2013) "Building a Bridge across the Transition Chasm," IEEE Security and Privacy, March / April 2013 Special Issue on Technology Transition, pp. 24-33.
- Buchanan, L., Larkin, M. and D'Amico, A. (2012). "Mission Assurance Proof of Concept: Mapping Dependencies among Cyber Assets, Missions and Users," 2012 IEEE International Conference on Technologies for Homeland Security, 13-15 November 2012, Waltham, MA.
- McNeese, M., Cooke, N., D'Amico, A., Endsley, M., Gonzalez, C., Roth, E., Salas, E. (2012) "Perspectives on Situated Cognition in Cyber Security," Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting, October 23-26, 2012.
- D'Amico, A., Verderosa, C., Horn, C. and Imhof, T. (2011) "Integrating Physical and Cyber Security Resources to Detect Wireless Threats to Critical Infrastructure," 2011 IEEE International Conference on Technologies for Homeland Security, 15-17 November 2011, Waltham, MA.
- O'Brien, B, D'Amico, A. and Larkin, M. (2011) "Technology Transition of Network Defense Visual Analytics: Lessons Learned from Case Studies," 2011 IEEE International Conference on Technologies for Homeland Security, 15-17 November 2011, Waltham, MA.

PEER REVIEWED PAPERS, PUBLICATIONS & BOOKS (Continued)

- Horn, C. and D'Amico, A. (2011) "Visual Analysis of Goal-Directed Network Defense Decisions," VizSEC 2011: Proceedings of the 8th International Symposium on Visualization for Computer Security, 20 July 2011, Pittsburgh, Pa., ACM Digital Library.

- D'Amico, A., Buchanan, L., Goodall, J. and Walczak, P. (2010) "Mission Impact of Cyber Events: Scenarios and Ontology to Express Relationships between Cyber Assets, Missions and Users," International Conference on i-Warfare and Security (ICIW), The Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA, 8-9 April 2010.

- Goodall, J.R., D'Amico, A. and Kopylec, J.K. (2009) "Camus: Automatically Mapping Cyber Assets to Missions and Users," MILCOM, October 2009.

- Prole, K., Goodall, J.R., D'Amico, A.D. and Kopylec, J.K. (2008) "Wireless Cyber Assets Discovery Visualization," In VizSec 2008: Visualization for Computer Security of Lecture Notes in Computer Science 5210, J.R. Goodall, G. Conti, and K.L. Ma (Eds.) Springer-Verlag Berlin Heidelberg, pp. 136-143.

- D'Amico, A. and Whitley, K. (2008) "The Real Work of Computer Network Defense Analysts," VizSEC 2007: Proceedings of the Workshop on Visualization for Computer Security, Springer-Verlag Berlin Heidelberg, pp. 19-37.

- D'Amico, A., Goodall, J., Tesone, D. and Kopylec, J. (2007) "Visual discovery in computer network defense," IEEE Proceedings on Computer Graphics and Applications, Special Issue on Discovering the Unexpected, vol. 27, no. 5, pp. 20-27, Sept / Oct 2007.

- Kopylec, J., D'Amico, A., and Goodall, J. (2007) "Visualizing Cascading Failures in Critical Cyber Infrastructure," Chapter in book entitled Critical Infrastructure Protection: Issues and Solutions. Springer, pp. 351-364. Also presented at I3 P Conference, Dartmouth University, March 2007.

- D'Amico, A. & Kocka, M. (2005) "Information Assurance Visualizations for Specific Stages of Situational Awareness and Intended Uses: Lessons learned," Proceedings of the Workshop on Visualization for Computer Security (VizSec), 107-112.

- D'Amico, A., Whitley, K., Tesone, D., O'Brien, B., and Roth, E. (2005) "Achieving Cyber Defense Situational Awareness: A Cognitive Task Analysis of Information Assurance Analysts," Proceedings of the Human Factors and Engineering Society Annual Meeting, September 27-29, 2005, p. 229-233.

- S. Geitz, B. Moon, A. D'Amico, R. Hoffman, and R. Page "Beyond Requirements: Improving Software Tools for Intelligence Analysts," Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting, Sept. 27-29, 2005, p. 932-935.

- D'Amico, A. & Larkin, M. (2001) Methods of Visualizing Temporal Patterns in and Mission Impact of Computer Security Breaches, Proceedings of DARPA Information Survivability Conference and Exposition (DISCEX II), IEEE Computer Society, p. 343-351.

- D'Amico, A. "What Does a Computer Security Breach Really Cost?" SANS Institute GIAC Certification Paper, Sept. 7, 2000.

- Zavidniak, Pa., D'Amico, A., and McCallam, D. "Achieving Information Resiliency," Information Technology Security Report, Vol 4, No 3 (1999) 54-62, Elsevier Science Ltd.

- Adelsberg, B. and Beadon, A. D. (1999) "The Effects of Loratadine, Diphenhydramine and Placebo on Worker Productivity: A Double-Blind Controlled Study." Abstract published in Journal of Allergy and Clinical Immunology, Volume 87, page 279, 1991.

- Adelsberg, B. and Beadon, A. D. (1991) "The Effects of Loratadine, Diphenhydramine and Placebo on Worker Productivity: A Double-Blind Controlled Study." Presented at the Meeting of the American Academy of Allergy and Immunology, March 1991.

- O'Hara, J., Kayten, P. and D'Amico, A. (1983) "The Effectiveness of Simulator Training of Watchstanding Skills." Proceedings of the American Psychological Association, Anaheim, California, August 1983.

- Puglisi, J., D'Amico, A., Taylor, H. and Schryver, J. (1983) "Recent Advances in Simulation: CAORF's Contribution to Marine Industry Productivity," SNAME Star Symposium, Washington, D.C., April 1983. Awarded best paper of Symposium.

PEER REVIEWED PAPERS, PUBLICATIONS & BOOKS (Continued)

- Gozzo, J. and D'Amico, A. (1982) "Simulation Used to Evaluate Proposed LNG Terminal Expansion." Hazardous Cargo Bulletin, September 1982.
- Gozzo, J. and D'Amico, A. (1982) "The CAORF Simulator: State-of-the-Art Technology Solving Timely Problems." Safety at Sea, September 1982.
- D'Amico, A. and Kaufman, E. (1982) "The Effect of Fatigue on Watch Schedule and Hours Worked on Watchstanding." Proceedings of the American Psychological Association, Washington, D.C., August 1982.
- D'Amico, A. and Williams, K (1981). "The Effects of Buoy Density and Buoy Flashing Patterns of Steering Through a Channel Bend." Proceedings of the American Psychological Association, Los Angeles, California, August 1981.

INVITED CONFERENCE PAPERS & SPEAKING ENGAGEMENTS
REPRESENTATIVE SAMPLE

- "The Life of an SBOM: Where does it go and what do people do to it and with it?," BSides NYC, October 19, 2024. With Zalevsky, K.)
- "My Journey from a $99K Cybersecurity Research Project to a Commercial Product and Acquisition," BSides NYC, October 19, 2024.
- "Does "Diversity" Really Have an Impact on Software and Security Teams," Global AppSec OWASP conference, October 13, 2020. https://www.youtube.com/watch?v=SdxDd4hYvFU&list=PLpr-xdpM8wG_VUJaTWBSa6pdnlOX78Cz9&index=37
- "Election Security: The Post-Pandemic Acceleration of Web-Based Voting and Security Issues," Panel Moderator. Panelists: Alex Padilla, California Secretary of State; Matt Masterson, Senior Advisor on Election Security at DHS CISA; Bryson Bort, Founder and CEO of SCYTHE, Global AppSec OWASP conference, October 13, 2020
- "Do Certain Types of Developers or Teams Write More Secure Code?" OWASP New York City Chapter, April 8, 2021
- "Which Developers and Teams Are More Likely to Write Vulnerable Software?" RSA Conference, February 24-28, 2020. (With Horn, C.)
- "Human Factors that Influence Secure Code Development," AppSec USA, October 2018. (With Horn, C.)
- "Application Security Testing - Two evening training seminar," ISC[2] New York Metro chapter, August 23-24, 2017. (With Bragdon, C. and Umadas, R.)
- "Manage Software Vulnerabilities" RSA Conference, April 18, 2018.
- "Application Security: Finding Software Vulnerabilities Before the Attackers Do." ISC[2] New York Metro chapter, presentation, October 6, 2016. (With Prole, K.)
- "Should There Be an Underwriters Laboratories Certification for Software in IoT Products?" AppSec USA, October 2016. (With Corman, J. and Greene, K.)
- "Cyber Security Visualization: State of Practice," Invited presentation to DoD Human Factors Technical Advisory Group (TAG), May 4, 2016.
- "CyberViz State of Practice: What You Should Know Before Embarking on Cybersecurity Visualization at Scale," Invited presentation to DARPA Summit of current and former program managers interested in visualization. March 22, 2016.
- "Application Security Testing: How to Find Software Vulnerabilities Before You Ship or Procure Code," New York State Cybersecurity Conference, June 2, 2015. (With Radwan, H.)
- "Speed Teaching Information Visualization Principles: Scientific Principles for Designing Effective Cyber Security Visualizations," Johns Hopkins Applied Physics Laboratory, August 27, 2013
- "Visual Analytics for Cyber Defense Decision-Making," Visual Analytics Community (VAC) Consortium, University of Maryland, May 1-3, 2011.
- "Wireless Threats Coming to a Shopping Mall Near You." New York Metro Chapter of the Information Security Systems Association, April 2009. (With Prole, K.)
- "Technology Transition of IA Research into Operational Environment". Invited speaker to Government SBIR Program Managers, Air Force Research Laboratory SBIR Workshop, Wright Patterson Air Force Base, July 2007.

INVITED CONFERENCE PAPERS & SPEAKING ENGAGEMENTS (Continued)

- "Combining Geographic and Security Information Systems for Assessing Cascading Effects of Infrastructure Failures," New York State Conference on Information Security, Albany, NY May 2007. (With Kopylec, J.)
- "Technology Transition of IA Research into Operational Environment". Invited speaker, NSA IA Program Managers Workshop, May 2007.
- "Challenges of Defending the US Government's Networks from Attack: Results of a Cognitive Study of IA Analysts." New York Metro Chapter of the Information Security Systems Association, April 2005.
- "Security Situational Awareness: Technologies for Visualizing and Correlating Security Data." New York State Conference on Information Security, Albany, NY, April 23, 2003.
- "Visualization of Mission Assurance," InfoWarCon 2002, Washington, DC, September 1, 2002.
- "Current and Future Technologies to Aid Cyber Security Officers in Our Defense Against Cyber Terrorism," Pentagon CIRT, Rosslyn, VA, November 20, 2001.
- "Cyber Defense Situational Awareness: Seeing the Big Picture," Vanguard Enterprise Security Expo 2001, co-sponsored by ISSA, Reno, Nevada, June 6, 2001.
- "Cyber Defense Situational Awareness." Computer Security in a Collaborative Research Environment, Brookhaven National Laboratory Symposium, Brookhaven, NY, June 27, 2000.
- "Information Warfare's Role in Information Superiority." Education Foundation of the Association of Information Technology Professionals, Washington, D.C., March 24-25, 1998.

CONFERENCE & WORKSHOP CHAIRS

- Session Chair - MILCOM, Cyber Mission Assurance, Orlando, FL, 2012**,** Organized and chaired panel on cyber mission assurance and mission impact of cyber-attacks. Participants included representatives of USCYBERCOM, and Air Force Institute of Technology.
- Workshop Chair - Workshop on Mission Impact of Cyber Attacks, Laurel, MD, 2009**,** Organized and chaired a workshop on mapping cyber assets to missions and users, attended by leading experts in mission impact analysis in DoD operations, industry and academia.
- Track Chair - InfoSecurity 2005 - Jacob Javits Convention Center, NY, NY, 2005**,** Chaired the Wireless Security track entitled "Always Connected, Are You Protected" at major Information Security conferences sponsored by Reed Exhibitions. Responsible for track topics, speaker contact and selection, and organization of content.
- Track Chair - InfoSecurity 2004 - Jacob Javits Convention Center, NY, NY, 2004**,** Chaired the ISSA track at major Information Security conferences sponsored by Reed Exhibitions. Track focused on information security topics relevant to NYC business, including financial institutions, entertainment, metropolitan computer crime, and publishing. Responsible for track topics, speaker contact and selection, and organization of content.
- Conference Chair - Forum on Information Warfare, Washington, DC, 2003**,** Developed the theme, tracks and content of major conference on Information Warfare, sponsored by the Management Information Systems Training Institute. Selected speakers and keynotes for 4 tracks, and 5 workshops, including a classified workshop.
- Workshop Co-Chair - Forum on Information Warfare, Washington, DC, 1999, "Information Operations: IW for the Warfighter." Co-Chair (with P. Zavidniak) of workshop at InfowarCon '99, Crystal City, Va. September 7, 1999.
- Session Chair - Forum on Information Warfare, Washington, DC, 1997, "Information Survivability of Interoperable Military Systems in a High IW Threat Environment." Session Chair and Speaker, National Computer Security Association's InfoWarCon '97, Vienna, VA, September 9-12, 1997.