

Gary E. McGraw, Jr.

Berryville Institute of Machine Learning
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EMPLOYMENT HISTORY

Spring 2019–present Berryville Institute of Machine Learning, Berryville, VA
Spring 2016–present *Co-founder, Chief Executive Officer*

Winter 2016–Spring 2019 Synopsys, Software Integrity Group, Mountain View, CA
Winter 2016–present *Vice President Security Technology*

Fall 1995–Winter 2016 Cigital, Inc., Dulles, VA
Summer 2001–Winter 2016 *Chief Technology Officer*
Summer 1998–Summer 2001 *Vice President, Corporate Technology*
Fall 1995–1998 *Research Scientist / Senior Research Scientist*

Summer 1996–Winter 1999 Krasnow Institute Associate
Krasnow Institute for Advanced Study, George Mason University, Fairfax, VA

Summer 1990–Fall 1995 *Researcher*
Center for Research on Concepts and Cognition, Indiana University, Bloomington, IN

Fall 1993–Fall 1994 *Researcher*
Istituto per la Ricerca Scientifica e Tecnologica, Trento, Italia

Fall term 1994 and Spring term 1993 *Visiting Assistant Professor of Computing Science*
Earlham College, Richmond, IN
Course: Programming Languages

Fall 1988–Spring 1990 *Associate Instructor*
Computer Science Department, Indiana University, Bloomington, IN
Taught courses in Scheme, Pascal, and Assembly Language

1985–1989 *President*
M² Computing, Inc., Kingsport, TN

EDUCATION

1995 Ph.D., Computer Science and Cognitive Science
Indiana University, Bloomington, IN
Dissertation: Letter Spirit: Emergent High-Level Perception of Letters Using Fluid Concepts
Advisor: Douglas R. Hofstadter

1990 M.S., Computer Science
Indiana University, Bloomington, IN

1988 B.A., Philosophy (Minor: Mathematics and Scientific Computing)
University of Virginia, Charlottesville, VA

BOARD MEMBERSHIPS

CURRENT

Starseer, Knoxville, TN. *Technical Advisory Board*, 2026—.

Vaultree, Dublin, Ireland. *Technical Advisory Board*, 2024—.

Maxmyinterest, New York, NY. *Technical Advisory Board*, 2013—.

Raven White, Palo Alto, CA. *Advisory Board*, 2006—.

Luddy School of Informatics, Computing, and Engineering, Dean's Advisory Council, Indiana University, Bloomington, IN, 2005—.

PAST

Synopsys, Mountain View, CA. *Technical Advisory Board*, Chair, 2016–2019. (Retired.)

Cigital, Inc., Dulles, VA. Director, *Board of Directors*, 2004–2016. (Acquired Synopsys.)

Codiscope, Boston, MA. Director, *Board of Directors*, 2015–2016. (Acquired Synopsys.)

Calypso AI, Dublin, Ireland. *Technical Advisory Board*, Chair, 2023–2024. (Acquired F5.)

Legit Security, Tel Aviv, Israel. *Technical Advisory Board*, Chair, 2022–2026.

Red Sift, London, England. *Technical Advisory Board*, Chair, 2022–2026.

Protopia AI, Austin, TX. *Technical Advisory Board*, Chair, 2022–2023.

Irius Risk, Madrid, Spain. *Technical Advisory Board*, Chair, 2020–2024. (Acquired ThreatModeler.)

CodeDX, Long Island, NY. *Technical Advisory Board*, Chair, 2020–2021. (Acquired Synopsys.)

Secure Code Warrior, Sydney, Australia. *Technical Advisory Board*, Chair, 2019–2023.

Runsafe Security, Tysons Corner, VA. *Technical Advisory Board*, Chair, 2020–2023.

Ntrepid, Herndon, VA. *Technical Advisory Board*, Chair, 2016–2020.

Black Duck Software, Boston, MA. *Advisory Board*, 2016–2016. (Acquired Synopsys.)

Johns Hopkins Information Security Institute, Baltimore, MD. *Advisory Board*, 2005–2016.

Invotas, Alexandria, VA. *Board of Advisors*, 2014–2016. (Acquired FireEye.)

Invincea, Fairfax, VA. *Advisory Board*, 2010–2013. (Acquired Sophos.)

Barns of Rose Hill, Berryville, VA. Director and Treasurer, *Board of Directors*, 2010–2012.

Dasient, Santa Clara, CA. *Technical Advisory Board*, 2011–2012. (Acquired Twitter.)

Fortify Software, Menlo Park, CA. *Technical Advisory Board*, Chairman, 2004–2010. (Acquired HP.)

Department of Computer Science Industrial Affiliates Board of Advisors, University of California Davis, Davis, CA, 2000–2010.

IEEE Computer Society, Washington, D.C. *Board of Governors*, 2006–2008.

Counterpane Internet Security, Inc., San Jose, CA. *Counterpane Advisory Board*, 2000–2006. (Acquired British Telecomm.)

Authentica, Waltham, MA. *Technical Advisory Board*, 2004–2006. (Acquired EMC.)

Indigo Security, Ann Arbor, MI. *Technical Advisory Board*, 2002–2004. (Acquired Tablus.)

Cenzic, San Jose, CA. *Technical Advisory Board*, 2000–2003. (Acquired Trustwave.)

Tovaris, Charlottesville, VA. *Technical Advisory Board*, 2000–2002.

Finjan Software, San Jose, CA. *Technical Advisory Board*, 1998–2002.

NetCertainty, Atlanta, GA. *Board of Directors and Technical Advisory Board*, 1999–2001.

Infosec Research Council, Chair, *Malicious Code Infosec Science and Technology Study Group*, Washington, D.C., 1999–2000.

GRANTS

Co-Principal Investigator AFRL Wright-Patterson Grant Number: F33615-02-C-1295, entitled *Protection Against Reverse Engineering: State of the Art in Disassembly and Decompilation*

Co-Principal Investigator Defense Advanced Research Projects Agency (DARPA) Grant number F30602-99-C-0172, entitled *An Investigation of Extensible System Security for Highly Resource-Constrained Wireless Devices*

Co-Principal Investigator Defense Advanced Research Projects Agency (DARPA) Grant number F30602-00-C-0079, entitled *Aspect Oriented Security Assurance Solution*

Co-Principal Investigator NIST Advanced Technology Program cooperative agreement number 1997-06-0005, entitled *Certifying Security in Electronic Commerce Components*

Co-Principal Investigator Rome Laboratory Grant number F30602-97-C-0117, entitled *Dynamic Security Analysis of COTS Applications*

Principal Investigator National Science Foundation Grant number DMI-9661393, entitled *SBIR Phase I: Genetic Algorithms for Software Test Data Generation*

Principal Investigator Defense Advanced Research Projects Agency (DARPA) Grant number DAAH01-97-C-R095, entitled *A Tool for Detecting the Existence of Unknown Corruptions in Real-Time*

PUBLICATIONS

Journal Publications

1. Gary McGraw, Richie Bonett, Harold Figueroa and Katie McMahon (2024) 23 Security Risks in Black-Box Large Language Model Foundation Models, *Computer*, Volume 57, Number 4, pages 160-164. July 2024.

2. Gary McGraw, Richie Bonett, Harold Figueroa and Victor Shepardson (2019) Security Engineering for Machine Learning, *Computer*, Volume 52, Number 8, pages 54-57. August 2019.
3. Laurie Williams, Gary McGraw and Sammy Migues (2018) Engineering Security Vulnerability Prevention, Detection, and Response, *IEEE Software*, Volume 35, Number 5, pages 76-80. September/October 2018.
4. Gary McGraw (2018) The New Killer App for Security: Software Inventory, *Computer*, Volume 17, Number 2, pages 60-62. February 2018.
5. Gary McGraw (2017) Six Tech Trends Impacting Software Security, *Computer*, Volume 16, Number 5, pages 100-102. May 2017.
6. Gary McGraw (2016) Four Software Security Findings, *Computer*, Volume 15, Number 1, pages 84-87. January 2016.
7. Gary McGraw (2014) Security Fatigue? Shift Your Paradigm, *Computer*, Volume 13, Number 3, pages 81-83. March 2014.
8. Gary McGraw (2013) Cyber War is Inevitable (Unless We Build Security In), *Journal of Strategic Studies*, Volume 36, Number 1, pages 109-119. February 2013.
9. Gary McGraw. (2012) Software Security: Building Security In, *DuD Datenschutz und Datensicherheit*, D 8150, pages 662-665. September 2012.
10. Gary McGraw & Anup Ghosh. (2012) Lost Decade or Golden Era: Computer Security Since 9/11, *IEEE Security & Privacy Magazine*, Volume 10, Number 1, pages 6-10. January/February 2012.
11. Gary McGraw. (2011) Technology Transfer: A Software Security Marketplace Case Study, *IEEE Software*, Volume 28, Number 5, pages 9-11. September/October 2011.
12. Ann K. Sobel & Gary McGraw. (2010) Interview: Software Security in the Real World, *Computer*, Volume 43, Number 9, pages 47-53, September 2010.
13. Gary McGraw & Ming Chow. (2009) Securing Online Games: Safeguarding the Future of Software Security, *IEEE Security & Privacy*, Volume 7, Number 3, pages 11-12, May/June 2009.
14. Gary McGraw. (2008) How Things Work: Automated Code Review Tools for Security, *IEEE Computer*, Volume 41, Number 12, pages 92-95. December 2008.
15. Gary McGraw & Greg Hoglund. (2007) Online Games and Security, *IEEE Security & Privacy*, Volume 5, Number 5, pages 76-79, September/October 2007.
16. Gary McGraw, editor. (2004-2005) Building Security In, a Department of *IEEE Security & Privacy*, Volume 2, Numbers 2-6. Department articles:
 - a. Software Security (Gary McGraw) 2(2):80-83.
 - b. Misuse and Abuse Cases: Getting Past the Positive (Paco Hope, Annie Anton & Gary McGraw) 2(3):32-34.
 - c. Risk Analysis in Software Design (Denis Verdon & Gary McGraw) 2(4):79-84.
 - d. Software Security Testing (Bruce Potter & Gary McGraw) 2(5):81-85.
 - e. Static Analysis for Security (Brian Chess & Gary McGraw) 2(6):76-79.
 Volume 3, Numbers 1-6. Department articles:
 - a. Software Penetration Testing (Brad Arkin, Scott Stender & Gary McGraw) 3(1):84-87.
 - b. Knowledge for Software Security (Sean Barnum & Gary McGraw) 3(2):74-78.
 - c. Adopting a Software Security Improvement Program (Dan Taylor & Gary McGraw) 3(3):88-91.
 - d. A Portal for Software Security (Nancy R Mead & Gary McGraw) 3(4):75-79.

- e. Bridging the Gap between Software Development and Information Security (Kenneth R. van Wyk & Gary McGraw) 3(5):75-79.
 - f. Seven Pernicious Kingdoms (Brian Chess, Yekaterina Tsipenyuk & Gary McGraw) 3(6):75-79.
- Volume 4, Numbers 1-6. Department articles:
 - g. Software Security and SOA, Danger Will Robinson (Jeremy Epstein, Scott Masumoto, & Gary McGraw) 4(1).
- 17. Ivan Arce & Gary McGraw, editors. (2004) Attacking Systems, a special issue of *IEEE Security & Privacy*, Volume 2, Number 4, July/August 2004.
- 18. Ivan Arce & Gary McGraw. (2004) Why Attacking Systems Is a Good Idea, *IEEE Security & Privacy*, Volume 2, Number 4, pages 17-19, July/August 2004.
- 19. Noopur Davis, Samuel Redwine, Gerlinde Zibulski, & Gary McGraw. (2004) Processes for Producing Secure Software: Summary of the US National Cybersecurity Summit Subgroup Report, *IEEE Security & Privacy*, Volume 2, Number 3, pages 18-25, May/June 2004.
- 20. Greg Hoglund & Gary McGraw. (2004) Attack Patterns. *CSI: Computer Security Journal*, Volume XX, Number 2, pages 15-32.
- 21. Bill Cheswick, Paul Kocher, Gary McGraw, & Avi Rubin. (2003) Bacon Ice Cream: The Best Mix of Proactive and Reactive Security. *IEEE Security & Privacy*, Volume 2, Number 4, pages 53-77.
- 22. Gary McGraw. (2003) From the Ground Up: The DIMACS Software Security Workshop. *IEEE Security & Privacy*, Volume 1, Number 2, pages 59-66.
- 23. Nancy Mead & Gary McGraw, editors. (2003) On the Horizon, Department of *IEEE Security & Privacy*, Volumes 1-2, Numbers 1-5 and Number 2. Six Department articles:
 - a. Two Views on Software Liability (Daniel Ryan and Carey Heckman) 1(1)
 - b. From the Ground Up: The DIMACS Software Security Workshop (Gary McGraw) 1(2):
 - c. Understanding Trusted Computing: Will Its Benefits Outweigh Its Drawbacks (Ed Felten)
 - d. Wireless Security's Future (Bruce Potter) 1(3)
 - e. SEHAS 2003: The Future of High Assurance Systems (Nancy Mead) 1(4)
 - f. A Call to Action: Look Beyond the Horizon (Jeannette Wing) 1(5)
 - g. Regulation and Information Security: Can Y2K Lessons Help Us? (Jeff Payne) 2(2): 58-61.
- 24. John Viega, J.T. Bloch, Tadyoshi Kohno, & Gary McGraw. (2002) Token-based scanning of source code for security problems. *ACM Transactions on Information Systems Security*, Volume 5, Number 3, pages 238-261.
- 25. Gary McGraw. (2002) Building Secure Software: Better than Protecting Bad Software. *IEEE Software*, Volume 19, Number 6, pages 57-59. (Point/Counterpoint with Greg Hoglund.)
- 26. Gary McGraw. (2002) Why Building Secure Software is Hard. *Computers and Security*, Volume 21, Number 3, pages 229-239.
- 27. Gary McGraw. (2002) On Bricks and Walls: Why Building Secure Software is Hard. *Cutter IT Journal*, Volume 15, Number 5, Pages 5-14, May 2002.
- 28. Gary McGraw. (2002) Managing Software Security Risks. *IEEE Computer*, Volume 35, Number 4, pages 99-101, April 2002.
- 29. Gary McGraw. (2002) Penetrate and Patch is Bad. *IEEE Software*, Volume 19, Number 1, page 15, January/February 2002.

30. CC Michael & Gary McGraw. (2001) Generating Software Test Data by Evolution. *IEEE Transactions on Software Engineering*, Volume 27, Number 12, pages 1085-1110, December 2001.
31. Gary McGraw & Greg Morrisett. (2000) Attacking Malicious Code: A Report to the Infosec Research Council. *IEEE Software*, Volume 17, Number 5, pages 33-41, September/October 2000.
32. John Viega, Gary McGraw, Tom Mutdosch, & Ed Felten. (2000) Statically Scanning Java Code: Finding Security Vulnerabilities. *IEEE Software*, Volume 17, Number 5, pages 68-74, September/October 2000.
33. Gary McGraw. (1999) Software Assurance for Security. *IEEE Computer*, Volume 32, Number 4, April 1999.
34. Gary McGraw & Ed Felten, editors. (1998) Mobile Code Security, *IEEE Internet Computing*, Volume 2, Number 6, November/December 1998.
35. Gary McGraw. (1998) Testing for Security During Development: Why we should scrap penetrate-and-patch. *IEEE Aerospace and Electronic Systems*, Volume 13, Number 4, pages 13-15, April 1998.
36. Jeff Voas, Frank Charron, Gary McGraw, Keith Miller, & Michael Friedman. (1997) Predicting How Badly "Good" Software can Behave. *IEEE Software*, Volume 14, Number 4, pages 73-83, July 1997.
37. Jeff Voas, Gary McGraw, Lora Kassab, & Larry Voas. (1997) Fault-injection: A Crystal Ball for Software Quality, *IEEE Computer*, Volume 30, Number 6, pages 29-36. June 1997.
38. Gary McGraw & Douglas R. Hofstadter. (1993) Perception and Creation of Diverse Alphabetic Styles. In *Artificial Intelligence and Simulation of Behaviour Quarterly*, Issue Number 85, pages 42-49. Autumn 1993. University of Sussex, UK.
39. Sushil Louis, Gary McGraw, & Richard Wyckoff. (1993) Case-based Reasoning Assisted Explanation of Genetic Algorithm Results. *Journal of Experimental and Theoretical Artificial Intelligence*, Volume 5, Number 1, pages 21-38. January-March 1993. Taylor and Francis, Washington.

Books and Chapters

40. Julia Allen, Sean Barnum, Robert Ellison, Gary McGraw & Nancy Mead. (2008) *Software Security Engineering: A Guide for Project Managers*, Addison-Wesley, New York.
41. Greg Hoglund & Gary McGraw. (2007) *Exploiting Online Games: Cheating Massively Distributed Systems*, Addison-Wesley, New York.
42. Gary McGraw. (2006) *Software Security: Building Security In*, Addison-Wesley, New York.
43. Greg Hoglund & Gary McGraw. (2004) *Exploiting Software: How to Break Code*, Addison-Wesley, New York.
44. Gary McGraw. (2002) Foreword, in *Wireless Security and Privacy: Best Practices and Design Techniques*, T. Swaminatha and C. Elden. Addison-Wesley, New York.
45. Gary McGraw & Douglas Hofstadter. (2002) Perception and Creation of Diverse Alphabetic Styles, Chapter 8 in *Creativity, Cognition, and Knowledge: An Interaction*, T. Dartnall (ed.). Praeger, Westport, CT.
46. John Viega & Gary McGraw. (2001) *Building Secure Software: How to Avoid Security Problems the Right Way*, Addison-Wesley Professional Computing Series, Addison-Wesley, New York.

47. Gary McGraw & Edward Felten. (1998) *Securing Java: Getting down to business with mobile code*, John Wiley & Sons, New York.
48. Jeff Voas & Gary McGraw. (1997) *Software Fault Injection: Inoculating Software Against Errors*, John Wiley & Sons, New York.
49. Gary McGraw & Edward Felten. (1996) *Java Security: Hostile Applets, Holes, and Antidotes*, John Wiley & Sons, New York.
50. Gary McGraw & Edward Felten. (1996) *Java Security*, A management briefing for SIGS Publications. New York.
51. Douglas Hofstadter & Gary McGraw. (1995) Letter Spirit: Esthetic Perception and Creative Play in the Rich Microcosm of the Alphabet, chapter 9 of *Fluid Concepts and Creative Analogies: Computer Models of the Fundamental Mechanisms of Thought*. Basic Books, New York.

Refereed Conference Publications

52. Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan & Srivaths Ravi. (2004) Security as a New Dimension in Embedded System Design. In the *Proceedings of DAC 2004*, June 7-11, 2004, San Diego, CA.
53. Gary McGraw. (2000) Will Openish Source Really Improve Security. In the *Proceedings of the 2000 IEEE Symposium on Security and Privacy*, May 2000, Oakland, CA.
54. John Viega, J.T. Bloch, Tadayoshi Kohno & Gary McGraw. (2000) ITS4: A Static Vulnerability Scanner for C and C++ Code. In the *Proceedings of ACSAC 2000*, December, 2000. Best Paper Award.
55. Gary McGraw, John Viega, J.T. Bloch, & Yoshi Kohno. (2000) ITS4: A Static Vulnerability Scanner for C and C++ Code. In the *Proceedings of International Conference on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet* (SGGR 2000). July 2000, L'Aquila, Italy.
56. Gary McGraw & John Viega. (1999) Why COTS Software Increases Security Risks. In *Proceedings of the ICSE Workshop on Testing Distributed Component-Based Systems*. May 1999.
57. Gary McGraw & Kevin Sullivan. (1998) Massive Games of Artificial Life on the Internet: A Testbed for Research on Survivability Architectures. In the *Proceedings of the Information Survivability Workshop 1998*, pages 139-154. October 28-30, Orlando, FL.
58. Christoph Michael & Gary McGraw. (1998) Automated Software Test Data Generation for Complex Programs. In *Proceedings of the 13th IEEE Automated Software Engineering Conference*, pages 136-146. October 13-16, Honolulu, Hawaii.
59. Anup Ghosh & Gary McGraw. (1998) An Approach for Certifying Security in Software Components. In *Proceedings of the 21st National Information Systems Security Conference*, pages 42-48. October 5-8, 1998, Crystal City, VA.
60. Anup Ghosh, Tom O'Connor, & Gary McGraw. (1998) An Automated Approach for Identifying Potential Vulnerabilities in Software. In the *Proceedings of the IEEE Symposium on Security and Privacy*, pages 104-114, Oakland, CA, May 3-6 1998.
61. Christoph Michael, Gary McGraw, Michael Schatz, & Curtis C. Walton. (1997) Genetic Algorithms for Dynamic Test Data Generation. In *Proceedings of the Twelfth IEEE International Automated Software Engineering Conference (ASE 97)*, pages 307-308. November 3-5, 1997. Tahoe, NV.

62. Gary McGraw. (1997) Java Security: Hostile Applets. In *Proceedings of Java Expo Europe*, pages 149-158. June 30-July 4, 1997. London.
63. Gary McGraw. (1997) Testing for Security During Development: Why we should scrap penetrate-and-patch. In *Proceedings of the 12th Annual Conference on Computer Assurance*, pages 117-119. June 16-19, 1997. Gaithersburg, MD.
64. Jeff Voas, Gary McGraw, & Anup Ghosh. (1997) Reducing Uncertainty About Survivability. In *Proceedings of the Information Survivability Workshop*, February 12-13, 1997. San Diego.
65. Jeff Voas, Anup Ghosh, Gary McGraw, & Keith Miller. (1996) Gluing Together Software Components: How Good is Your Glue? In *Proceedings of Pacific Northwest Software Quality Conference*, pages 338-349, Portland, OR, October, 1996.
66. Gary McGraw & Douglas R. Hofstadter. (1996) Emergent Letter Perception: Implementing the Role Hypothesis. In the *Proceedings of the Eighteenth Annual Conference of the Cognitive Science Society*, pages 621-626, July 1996.
67. Gary McGraw & Christoph Michael. (1996) Automatic Generation of Test-Cases for Software Testing. In the *Proceedings of the Eighteenth Annual Conference of the Cognitive Science Society*, page 811, July 1996.
68. Gary McGraw & Anup Ghosh. (1996) Developing Expertise in Software Security: An Outsider's Perspective. In the working notes of the *Invitational Workshop on Computer Vulnerability Data Sharing*. National Institute of Standards and Technology, Gaithersburg, MD, June 1996.
69. Jeff Voas, Gary McGraw, Anup Ghosh, Frank Charron & Kieth Miller. (1996) Defining an adaptive software security metric from a dynamic software failure tolerance measure. In the *Proceedings of the Ninth Annual Conference on Computer Assurance (COMPASS'96)*, pages 250-263, June 1996.
70. Gary McGraw & Dave Hovemeyer. (1996) Untangling the Woven Web. In *Proceedings of the Thirteenth International Conference and Exposition on Testing Computer Software*, pages 111-119. June 1996.
71. Aaron S. Binns & Gary McGraw. (1996) Building a Java Software Engineering Tool. In *Proceedings of the 1996 IntraNet NY Conference*, April 1996.
72. Gary McGraw. (1995) Emergent Perception of Gridletters. In *Proceedings of the 1995 Midwest AI and Cognitive Science Conference*, pages 63-67, April 1995.
73. Gary McGraw, John Rehling & Robert Goldstone. (1994) Letter Perception: Toward a conceptual approach. In the *Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society*, pages 613-618, Atlanta, GA, August 1994.
74. Gary McGraw & Douglas R. Hofstadter. (1993) Letter Spirit: An Architecture for Creativity in a Microdomain. In *Advances in Artificial Intelligence: Third Congress of the Italian Association for Artificial Intelligence (AI*IA 93)*, P. Torasso (ed.), pages 65-70, Torino, October 26-8, 1993.
75. Gary McGraw & Douglas R. Hofstadter. (1993) Perception and Creation of Alphabetic Style. In *Artificial Intelligence and Creativity: Papers from the 1993 Spring Symposium*, AAAI Technical Report SS-93-01, AAAI Press.
76. Lisa Meeden, Gary McGraw & Doug Blank. (1993) Emergent Control and Planning in an Autonomous Vehicle. In *Proceedings of the Fifteenth Annual Conference of the Cognitive Science Society*, pages 735-740, June 1993.

77. Gary McGraw & Daniel Drasin. (1993) Recognition of Gridletters: Probing the Behavior of Three Competing Models. In *Proceedings of the Fifth Midwest AI and Cognitive Science Conference*, pages 63-67, April 1993.
78. Sushil Louis, Gary McGraw, & Richard Wyckoff. (1992) Automating Explanation of Genetic Algorithm Results (two paradigms collide). In *Proceedings of the Florida Artificial Intelligence Research Symposium 1992 (FLAIRS-92)*, pages 201-205, April 1992.
79. Gary McGraw. (1991) Chatterbox: Fluid Retrieval in a Case-Based System. In *Proceedings of the Third Midwest AI and Cognitive Science Conference*, pages 72-78, May 1991.

Dissertation

80. Gary McGraw. (1995) Letter Spirit (part one): Emergent High-Level Perception of Letters Using Fluid Concepts. Available at <<http://www.cogsci.indiana.edu/farg/mcgrawg/thesis.html>>.

Industry Reports, Technical Reports, and Submitted Articles

81. Gary McGraw, Harold Figueroa, Katie McMahon, Richie Bonnet. (2026) No Security Meter for AI, Berryville Institute of Machine Learning (BIML), May 13, 2026.
82. Gary McGraw, Dan Geer, and Harold Figueroa, "Why the Data Ocean Is Being Sectioned Off," *Lawfare*, July 10, 2024. [Online]. Available: <https://www.lawfaremedia.org/article/why-the-data-ocean-is-being-sectioned-off>.
83. Gary McGraw, Harold Figueroa, Katie McMahon, Richie Bonnet. (2024) An Architectural Risk Analysis of Large Language Models: Applied Machine Learning Security, Berryville Institute of Machine Learning (BIML), January 24, 2024.
84. Gary McGraw, Harold Figueroa, Victor Shepardson, Richie Bonnet. (2020) An Architectural Risk Analysis of Machine Learning Systems: Toward More Secure Machine Learning, Berryville Institute of Machine Learning (BIML), January 13, 2020.
85. Gary McGraw, Sammy Migue, and Jacob West. (2018) The Building Security In Maturity Model (BSIMM9), Synopsys, Software Integrity Group, October 2018.
86. Gary McGraw, Sammy Migue, and Brian Chess (2018) Four CISO Tribes and Where to Find Them (CISO Report), Version 2.0, Synopsys, Software Integrity Group, January 17, 2018.
87. Gary McGraw (2018) From Mainframes to Connected Cars: How Software Drives the Automotive Industry, SecurityLedger, August 15, 2018.
88. Gary McGraw, Sammy Migue, and Jacob West. (2017) The Building Security In Maturity Model (BSIMM8), Synopsys, Software Integrity Group, October 2017.
89. Gary McGraw, Sammy Migue, and Jacob West. (2016) The Building Security In Maturity Model (BSIMM7), Cigital, Inc., October 2016.
90. Gary McGraw, Sammy Migue, and Brian Chess. (2016) CISO Report: Four CISO Tribes and Where to Find Them, Cigital, Inc., August 2016.
91. Gary McGraw, Sammy Migue, and Jacob West. (2015) The Building Security In Maturity Model (BSIMM6), Cigital, Inc., October 2015.

92. Gary McGraw, Sammy Migues, and Jacob West. (2013) The Building Security In Maturity Model (BSIMM-V), Cigital, Inc., October 2013.
93. Gary McGraw, Sammy Migues, and Brian Chess. (2012) The Building Security In Maturity Model (BSIMM4), Cigital, Inc., September 2012.
94. Gary McGraw, Sammy Migues, and Brian Chess. (2011) The Building Security In Maturity Model (BSIMM3), Cigital, Inc., September 2011.
95. Gary McGraw and Nathaniel Fick. (2011) Separating the Threat from the Hype: What Washington Needs to Know About Cyber Security in AMERICA'S CYBER FUTURE: SECURITY AND PROSPERITY IN THE INFORMATION AGE VOLUMES I AND II, Center for a New American Security, June 2011.
96. Gary McGraw, Sammy Migues, and Brian Chess. (2010) The Building Security In Maturity Model (BSIMM2), Cigital, Inc., May 2010.
97. Gary McGraw, Sammy Migues, and Brian Chess. (2009) The Building Security In Maturity Model (BSIMM), Cigital, Inc., March 2009.
98. Noopur Davis, Samuel Redwine, Gerlinde Zibuski, Gary McGraw, and Watts Humphrey. (2004) Summary of National Cyber Security Summit Subgroup Report: Processes for Producing Secure Software. April 2004.
99. National Cyber Security Task Force (Gary McGraw, contributor). (2004) Improving Security Across the Software Development Lifecycle. April 1, 2004.
100. Gary McGraw, Anup Ghosh, Frank Charron, and Michael Shatz. (1997) Towards Analyzing Security-Critical Software During Development, Technical Report, Reliable Software Technologies Corp, Sterling, VA 20166. August 1997.
101. Gary McGraw, John Rehling & Robert Goldstone. (1994) Roles in Letter Perception: Human data and computer models, Technical Report 90, Center for Research on Concepts and Cognition, 510 North Fess, Bloomington, IN 47405, July 1994.
102. Douglas Hofstadter & Gary McGraw. (1993) Letter Spirit: An Emergent Model of the Perception and Creation of Alphabetic Style. Technical Report 68, Center for Research on Concepts and Cognition, 510 North Fess, Bloomington, IN 47405, January 1993.
103. Gary McGraw. (1992) Letter Spirit: Recognition and Creation of Letterforms Based on Fluid Concepts. Technical Report 61, Center for Research on Concepts and Cognition, 510 North Fess, Bloomington, IN 47405, June 1992.
104. Gary McGraw, Robert Montante, and David Chalmers. (1990) Rapmaster Network: Exploring Temporal Pattern Processing with Recurrent Networks. Technical Report 336, Computer Science Department, Lindley Hall, Indiana University, Bloomington, IN 47405, April 1990.

Multimedia, Television and Radio (see links at <https://www.garymcgraw.com/press/>)

105. Gary McGraw (2026-) The Silver Bullet Security Podcast with Gary McGraw. March 2026– . Produced by Berryville Institute of Machine Learning. See <https://www.garymcgraw.com/technology/silver-bullet-podcast/>.

Episode 154)	Gadi Evron, Knostic AI, March 2026
Episode 155)	Giovanni Vigna, UC Santa Barbara, April 2026
Episode 156)	Phil Venables, Ballistic, May 2026
Episode 157)	Tim Schulz, Starseer, June 2026
Episode 158)	Artem Dinaberg, Trail of Bits, July 2026

106. Gary McGraw, [Is Claude Mythos Over?](#) *DW News*, June 14, 2026.
107. Gary McGraw, Socks, Crocs, and AI Security, *The Data Culture Podcast*, June 3, 2026.
108. Gary McGraw (2006-2019) The Silver Bullet Security Podcast with Gary McGraw. April 2006–December 2019. Syndicated by SearchSecurity or informIT. Some episodes published as the *Interview* Department of *IEEE Security & Privacy*. See <https://www.garymcgraw.com/technology/silver-bullet-podcast/>.
- Episode 1) Avi Rubin, Johns Hopkins University, April 2006
 - Episode 2) Dan Geer, Chief Scientist, Verdasys, May 2006
 - Episode 3) Marcus Ranum, security guru, June 2006
 - Episode 4) Dana Epp, CEO, Scorpion Software, July 2006
 - Episode 5) Ed Felten, Princeton, August 2006
 - Episode 6) Michael Howard, Senior Security Program Manager, Microsoft, September 2006
 - Episode 7) John Stewart, CSO, Cisco, October 2006
 - Episode 8) Brian Chess, Chief Scientist, Fortify Software, November 2006
 - Episode 9) Bruce Schneier, CTO, Counterpane/British Telecom, December 2006
 - Episode 10) Fortify Software Technical Advisory Board, January 2007
 - Episode 11) Dorothy Denning, Naval Postgraduate School, February 2007
 - Episode 12) Becky Bace, Trident Capital, March 2007
 - Episode 13) Ross Anderson, Cambridge University, April 2007
 - Episode 14) Peter Neumann, SRI, May 2007
 - Episode 15) Annie Antón, North Carolina State University, June 2007
 - Episode 16) Greg Hoglund, CEO, hbgary, July 2007
 - Episode 17) Eric Cole, CEO, Secure Anchor, August 2007
 - Episode 18) Eugene Spafford, Purdue University, September 2007
 - Episode 19) Mikko Hyppönen, Chief Research Officer, F-Secure, October 2007
 - Episode 20) Markus Jakobsson, PARC, November 2007
 - Episode 21) Cigital's Principal Consultants, December 2007
 - Episode 22) Ed Amoroso, CSO, AT&T, January 2008
 - Episode 23) Chris Wysopal, CTO, Veracode, February 2008
 - Episode 24) Mary Ann Davidson, CSO, Oracle, March 2008
 - Episode 25) Jon Swartz, reporter, USA Today, April 2008
 - Episode 26) Adam Shostack, security expert, Microsoft, May 2008
 - Episode 27) Gunnar Peterson, Managing Principal, Arctec Group, June 2008
 - Episode 28) Bill Cheswick, AT&T Research, July 2008
 - Episode 29) Dennis Fisher, reporter, Techtarget, August 2008
 - Episode 30) Ken van Wyk, Principal, KRvW Associates, September 2008
 - Episode 31) Matt Bishop, UC Davis, October 2008
 - Episode 32) Jeremiah Grossman, WhiteHat, November 2008
 - Episode 33) Laurie Williams, NCSU, December 2008
 - Episode 34) Bill Brenner, CSO Online, January 2009
 - Episode 35) Daniel Suarez, author, February 2009
 - Episode 36) Gary McGraw, Cigital, March 2009 (by James McGovern, the Hartford)
 - Episode 37) Virgil Gligor, CMU, April 2009
 - Episode 38) Kay Connelly, Indiana University, May 2009
 - Episode 39) Matt Blaze, University of Pennsylvania, June 2009
 - Episode 40) Bob Blakley, Burton Group, July 2009
 - Episode 41) Fred Schneider, Cornell, August 2009
 - Episode 42) Gillian Hayes, UC Irvine, September 2009
 - Episode 43) Christofer Hoff, Cisco, October 2009
 - Episode 44) Steve Kent, BBN Technologies, November 2009
 - Episode 45) Lorrie Cranor, CMU, December 2009
 - Episode 46) David Rice, Monterey Group, January 2010
 - Episode 47) Greg Morrisett, Harvard, February 2010
 - Episode 48) Andrew Jaquith, Forrester, March 2010

Episode 49) Ivan Arce, Core Security, April 2010
 Episode 50) Richard A. Clarke, Good Harbor, May 2010 (HD video)
 Episode 51) Anup Ghosh, Invincea, June 2010
 Episode 52) Paul Kocher, Cryptography Research, July 2010
 Episode 53) Richard Bejtlich, GE, August 2010
 Episode 54) Marc Donner, Google, September 2010
 Episode 55) Deborah Frincke, Pacific Northwest National Labs, October 2010
 Episode 56) Sammy Migués, Cigital, November 2010
 Episode 57) Elinor Mills, CBS/C!Net, December 2010
 Episode 58) John Savage, Brown University, January 2011
 Episode 59) Ralph Langner, Langner Communications, February 2011
 Episode 60) Neil Daswani, Dasient, March 2011
 Episode 61) Carl Landwehr, National Science Foundation, April 2011
 Episode 62) Halvar Flake, Google, May 2011
 Episode 63) Craig Miller, MAPA Group, June 2011
 Episode 64) Markus Schumacher, Virtual Forge, July 2011
 Episode 65) Giovanni Vigna, University of California Santa Barbara, August 2011
 Episode 66) Shari Lawrence Pfleeger, Dartmouth College, September 2011
 Episode 67) Bill Pugh, University of Maryland, October 2011
 Episode 68) John Steven, Cigital, November 2011
 Episode 69) Steve Myers, Indiana University, December 2011
 Episode 70) Ross Anderson, Cambridge University, January 2012
 Episode 71) Bill Arbaugh, University of Maryland, February 2012
 Episode 72) Randy Sabett, ZwillGen PLLC, March 2012
 Episode 73) Robert Vamosi, Mocana, April 2012
 Episode 74) Bruce Schneier, BT, May 2012
 Episode 75) Howard Schmidt, The White House, June 2012 (HD video)
 Episode 76) David Evans, University of Virginia, July 2012
 Episode 77) Gary Warzala, Visa International, August 2012
 Episode 78) Jacob West, HP/Fortify, September 2012
 Episode 79) Per-Olof Persson, Sony, October 2012
 Episode 80) Thomas Rid, Kings College London, November 2012
 Episode 81) Steve Bellovin, Columbia, December 2012
 Episode 82) Kevin Fu University of Michigan, January 2013
 Episode 83) Mark Graff, NASDAQ/OMX, February 2013
 Episode 84) Hord Tipton, ISC², March 2013
 Episode 85) Jim Routh and Scott Matsumoto, April 2013
 Episode 86) Wenyan Xu, University of South Carolina, May 2013
 Episode 87) James Walden, Northern Kentucky University, June 2013
 Episode 88) Christian Collberg, Arizona, July 2013
 Episode 89) Michael Reiter, University of North Carolina, August 2013
 Episode 90) Matthew Green, Johns Hopkins University, September 2013
 Episode 91) Caroline Wong, Director, Cigital, October 2013
 Episode 92) Jon Callas, CTO, Silent Circle, November 2013
 Episode 93) Yoshi Kohno, University of Washington, December 2013
 Episode 94) Ming Chow, Tufts, January 2014
 Episode 95) Charlie Miller, Security Engineer, Twitter, February 2014
 Episode 96) Nate Fick, CEO, Endgame, March 2014
 Episode 97) Aaron Bedra, Principal, Cigital, April 2014
 Episode 98) Bart Miller, University of Wisconsin, May 2014
 Episode 99) Mike Hicks, University of Maryland, June 2014
 Episode 100) Roundtable: Cigital Principals, July 2014
 Episode 101) Jim Del Grosso (Cigital), Yoshi Kohno (University of Washington) and Christoph Kern (Google), August 2014
 Episode 102) Richard Danzig, Center for New American Security, September 2014
 Episode 103) Brian Krebs, Krebs On Security, October 2014

Episode 104) Rick Gordon, Managing Partner, mach37, November 2014
 Episode 105) Whitfield Diffie, Stanford University, December 2014
 Episode 106) Steve Katz, Katz and Associates, January 2015
 Episode 107) Jean Camp, Indiana University, February 2015
 Episode 108) Katie Moussouris, HackerOne, March 2015
 Episode 109) Bart Preneel, KU Leuven, April 2015
 Episode 110) Paul Dorey, CSO Confidential, May 2015
 Episode 111) Marcus Ranum, Tenable, June 2015
 Episode 112) Steve Bellovin (Columbia) and Matt Green (Johns Hopkins University), July 2015
 Episode 113) Chandu Ketkar, Cigital, August 2015
 Episode 114) Peter Clay, Qlik, September 2015
 Episode 115) Peiter mudge Zatk0, October 2015
 Episode 116) Doug Maughan, Department of Homeland Security, November 2015
 Episode 117) Jamie Butler, Endgame, December 2015
 Episode 118) Jack Daniel, Tenable, January 2016
 Episode 119) Jacob West, NetSuite, February 2016
 Episode 120) Gary McGraw (interviewed by Marcus Ranum), March 2016
 Episode 121) Marty Hellman, Stanford, April 2016
 Episode 122) David Nathans, Siemens, May 2016
 Episode 123) Yanek Korff, Korff Consulting, June 2016
 Episode 124) Lance Cottrell, Ntrepid, July 2016
 Episode 125) Jim Manico, Manicode, August 2016
 Episode 126) Mike Pittenger, Black Duck Software, September 2016
 Episode 127) Marie Moe, SINTEF, October 2016
 Episode 128) Lesley Carhart, November 2016
 Episode 129) Kelly Lum, Tumblr, December 2016
 Episode 130) Jesse Irwin, Mercury Public Affairs, January 2017
 Episode 131) Kate Pearce, Cisco, February 2017
 Episode 132) Chenxi Wang, Jane Bond Project, March 2017
 Episode 133) Cheryl Biswas, KPMG, April 2017
 Episode 134) Kelly Jackson-Higgins, darkreading, May 2017
 Episode 135) Ksenia Dmitrieva-Peguero, Synopsys, June 2017
 Episode 136) Pavi Ramamurthy, LinkedIn, July 2017
 Episode 137) Wafaa Mamilli, Eli Lilly, August 2017
 Episode 138) Nicole Perlroth, NY Times, September 2017
 Episode 139) Matias Madou, Secure Code Warrior, October 2017
 Episode 140) Adrienne Porter Felt, Google, November 2017
 Episode 141) Bruce Potter, Expel, December 2017
 Episode 142) Craig Froelich, Bank of America, January 2018
 Episode 143) Elena Kvochko, February 2018
 Episode 144) Ron Gula, Gula Tech Adventures, March 2018
 Episode 145) Tanya Janca, Microsoft, April 2018
 Episode 146) Nicholas Weaver, UC Berkeley, May 2018
 Episode 147) Kathleen Fisher, Tufts, June 2018
 Episode 148) Gørn Breivik, Bergen Commune, July 2019
 Episode 149) Brittany Postnikoff, Waterloo, August 2019
 Episode 150) Filippo Valsorda, Google, September 2019
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 - Andy Steingruebl, Paypal, June 2009
 - Jerry Archer, Intuit, July 2009
 - Kris Inglis, vmware, September 2009
 - James McGovern and Bob Briggs, the Hartford, October 2009
 - Antti Vähä-Sipilä and Janne Uusilehto, Nokia, November 2009
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 - j. Thirteen Principles to Ensure Enterprise System Security, January 2013
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 - h. Web Applications and Software Security, November 14, 2008
 - i. Software Security Top 10 Surprises, December 15, 2008
 - j. Top 11 Reasons Why Top 10 (or Top 25) Lists Don't Work, January 13, 2009
 - k. Nine Things Everybody Does: Software Security Activities from the BSIMM, February 9, 2009
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 - n. Twitter Security, May 15, 2009
 - o. Measuring Software Security, June 18, 2009
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 - t. BSIMM Europe, November 10, 2009
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 - w. What Works in Software Security, February 26, 2010
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 - cc. Software Security Crosses the Threshold, August 16, 2010
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 - gg. Driving Efficiency and Effectiveness in Software Security, December 29, 2010
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 - h. Playing the Numbers, April 4, 2000.
 - i. Beating the Bias, April 11, 2000.
 - j. Software Strategies, May 2, 2000.
 - k. Everything to hide, May 18, 2000.
 - l. Using hashing algorithms for data integrity and authentication, July, 2000. (with Tom O'Connor)
 - m. Protecting Passwords, Part 1, August, 2000.
 - n. Protecting Passwords, Part 2, September, 2000.
 - o. One Time Pads, October, 2000.
 - p. Security by Obscurity., October, 2000.
 - q. Race conditions, Part 1, October, 2000.
 - r. Race conditions, Part 2, October, 2000.
 - s. Principles of software security, Part 1, November, 2000.
 - t. Principles of software security, Part 2, November, 2000.
 - u. Principles of software security, Part 3, December, 2000.
 - v. Principles of software security, Part 4, December, 2000.
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217. Gary McGraw. (1997) *Don't push me: the security implications of push*, developer.com, December 30, 1997.
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222. Gary McGraw. (1997) *Is your browser a blabbermouth? Are your ports being scanned?* JavaWorld 2(3), March 1997.
223. Gary McGraw and Ed Felten. (1997) *The dark side of executable content*, NetscapeWorld 2(2), February 1997.
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- 2026:** [9 hits] **DW News (German TV)** (6/14), **Fortune** (6/3), The Data Culture Podcast (6/3), Schneier on Security (5/24), **New York Times** (5/12), CSO Online (5/6), **Fortune** (4/23), Decipher (4/10), BusinessWire (2/3)
- 2025:** [1 hit] Cybersecurity Today (4/18)
- 2024:** [14 hits] darkreading (12/6), Decipher (8/21), Tech Target Podcast (4/1), TheInsurerTV (3/19), USENIX ;login: (3/15), Security Ledger Podcast (2/21), **AP** (2/14), Decipher (2/6), Medium (1/29), Google Cloud Security Podcast (1/25), Decipher (1/24), darkreading (1/24), EIN News Press Release (1/24), darkreading (1/19)
- 2023:** [11 hits] Decipher (11/4), darkreading (10/26), darkreading (8/18), **Fortune** (8/13), **AP** (8/13), Synopsys podcast (8/2), darkreading (4/20), readme security (2/3), darkreading (1/29), Medium (1/23), darkreading (1/11)
- 2022:** [3 hits] Medium (12/17), darkreading (2/15), darkreading (2/2)

2021: [12 hits] HelpNet Security (9/23), Clarke Monthly (8/14), darkreading (4/27), Down the Security Rabbit Hole Podcast (4/27), MissionNorth (3/30), Winchester Star (3/30), SC Magazine (3/29), TechRepublic (3/26), Decipher (3/26), Irius Risk (3/25), darkreading (1/29), Infosecurity Magazine (1/26)

2020: [11 hits] We Wonder (4/9), Security Ledger (3/31), Pure AI (3/11), Medium (2/21), Cyberwire (2/14), darkreading (2/13), Winchester Star (1/25), Northern Virginia Daily (1/23), Winchester Star (1/22), Faquier Times (1/20), Northern Virginia Daily (1/20)

2019: [7 hits] Medium (7/17), US Federal Trade Commission (7/16), The Parallax (6/5), US PIRG (4/30), IFixITOrg (4/30), Security Voices (3/22), Winchester Star (1/17)

2018: [48 hits] Forbes (10/27), Dzone (10/19), Collective Intelligence Podcast (10/18), siliconrepublic (10/17), IT Security Guru (10/16), Defense iQ (10/10), ThreatPost (10/10), Forbes (10/9), ThreatPost (10/9), Security Boulevard (10/3), ThreatPost (10/3), HelpNetSecurity (10/3), Intelligent CISO (10/2), Security Ledger (10/2), eWeek (10/2), ECT News Network (10/2), Intelligent CISO (10/1), Times Now News (9/29), Information Security Buzz (9/29), The Asian Independent (9/29), Security Boulevard (9/28), Security Ledger (9/29), ThreatPost (9/28), **The Sun** (9/28), Forbes (9/28), Silicon (9/19), Infosecurity (9/19), Businessweek CIO World (9/18), **NBC News** (8/20), ECT New Network (8/17), SC Media UK (7/12), FIRE News (6/28), Businessweek CIO world (6/28), TechTarget (6/22), TechTarget (6/1), livemint (5/22), ITProPortal (5/8), helpnetsecurity (5/8), Cyber Security Hub (4/10), TF7Radio (4/10), TechBeacon (3/21), darkreading (2/28), eSecurityPlanet (2/8), TechBeacon (2/1), Collective Intelligence Podcast (1/30), Electronics Media (1/17), Semiconductor Engineering (1/12), darkreading (1/17)

2017: [36 hits] SC Media UK (12/22), FintechAsia (12/21), Naked Security (10/13), Express Newsline (10/18), Connected to India (10/18), International Business Times (10/18), BW CI World (10/18), The Business Times (10/17), Electronics Weekly (10/17), Continuity Central (10/17), Computer Weekly (10/17), **The Straits Times** (10/17), darkreading (10/5), What Investment (10/5), Information Age (9/29), ThreatPost (9/21), darkreading (9/21), Info Security Group (9/21), SD Times (9/21), Business Insider (9/21), IT Security Guru (9/21), Threatpost (9/20), **The Washington Post** (9/12), Information Age (9/8), SC Media (9/8), Mortgage Finance Gazette (9/8), Naked Security (8/7), Owasp (4/25), The Impact Podcast (4/21), SD Times (4/3), UVa Today (3/21), Threatpost (3/1), The Parallax (2/17), Cyber Security Interviews (2/13), ITSP Magazine (2/12)

2016: [19 hits] Threatpost (10/12), CSO Online (10/11), CSO online (10/6), Darkreading (10/4), SD Times (10/4), Threatpost (10/4), Health Data Management (7/13), CSO (7/12), M2 TechCast (5/24), **RT** (4/18), **San Francisco Chronicle** (4/11), IEEE Spectrum (4/5), O'Reilly (3/12), Darkreading (3/2), Threatpost (2/9), IEEE Cyber Security (2/9), CERT (2/3), Redmond Magazine (1/5), TechBeacon (1/5)

2015: [47 hits] TechTarget (12/24), InfoWorld (12/23), SD Times (12/13), TechTarget (12/28), **NBC News** (12/13), Auto Cash Management (12/8), eSecurity Planet (11/24), Darkreading (11/23), CSO (11/16), Darkreading (11/10), BusinessSolutions (11/9), IOT-inc (10/31), Threatpost (11/28), Techcentral (10/22), MIS-Asia (10/21), MIS-Asia (10/21), CMIO (10/21), Health Data Management (10/20), **Forbes** (10/20), InforWorld (10/20), Raindrop (10/19), Health Management Technology (10/19), LinkedIn (10/19), Darkreading (10/19), Threatpost (10/19), SD Times (10/19), Network World (10/2), InfoWorld (10/2), Darkreading (9/22), Computerworld (9/14), Threatpost (9/11), **The Washington Post** (6/22), CSO Online (5/22), TechTarget (5/21), TechTarget (5/21), TechTarget (5/21), **Financial Times** (4/10), Risk and Insurance (4/8), SC Magazine (4/1), Style Weekly (3/30), CSO Online (2/24), Search CIO (2/23), CSO Online (2/12), IT World Canada (2/10), CSO Online (2/9), The Web Platform Podcast (2/2), InfoQ (2/1), ADT Magazine (1/12)

2014: [47 hits] Nextgov (12/3), SearchSecurity (11/11), **NPR** (9/4), Threatpost (9/3), Dr. Dobbs (9/2), ADT Magazine (9/2), SC Magazine (8/29), Information Security Solutions (8/29), Datacenter Solutions (8/29), Information Security Buzz (8/28), Threatpost (8/28), SD Times (8/28), Security Week (8/27), Betanews (8/27), IITProPortal (8/27), nfosecurity Magazine (8/27), eWeek (8/27), darkreading (8/27), Helpnetsecurity (8/27), Computerweekly (8/27), Techworld (8/27), Networkworld (8/13), CSO (8/13), Marketwatch (8/7), Archimedes (8/2), Just Security (7/29), SD Times (7/29), Nextgov (7/24), Nextgov (7/22), Lawfare (7/21), **Wall Street Journal** (6/10), **Wall Street Journal** (5/28), **BBC Radio** (5/7), **Wall Street Journal** (5/6), **Wall Street Journal** (5/6), CSO (4/11), Politico (4/8), Security Weekly TV (3/21), inuseful (3/13), TechNewsWorld (3/11), CMU Cyblog (3/7), HP Discover Performance Weekly (2/22), Redmond Magazine (2/20), **JMU Distinguished Lecture** (2/7), CSO (1/23), Computerworld (1/14), Computerworld (1/9)

2013: [50 hits] Trusted Software Alliance (12/9), CSO (11/13), CSO (11/5), CRN (11/4), Threatpost (11/1), Techworld (11/1), EMC blog (11/1), eSecurity Planet (10/30), Information Security Magazine (10/30),

- darkreading (10/30), SecurityWeek (10/30), The Price of Business (10/10), In The Capital (10/1), Results Matter Radio (10/1), AJC Tech Biz (10/1), LLR announcement (10/1), Redmond Magazine (10/1), **TV Inside Indiana Business** (9/28), HP Protect Interview (9/17), HP Protect video (9/17), **Boston Globe** (9/15), Trusted Software Alliance (8/28), HP Discover Performance (8/23), HP Discover Performance (8/23), Inside Story (8/6), Washington Times (7/23), **Wall Street Journal** (7/23), Tech Talk (7/14), BBC News (7/4), CSO (6/17), Foxnews.com (6/7), IU Cogsci News (4/25), IU News (6/7), Threatpost (4/15), Threatpost (3/21), **Reuters** (3/19), RSA Conference video (3/8), SearchSecurity video (3/8), Computing Now (3/7), Application Development Trends (3/5), Redmond Magazine (3/5), **TV MSNBC Up with Chris Hayes** (2/24), InfoWorld (2/22), CSO (2/19), Winchester Star (2/14), Application Development Trends (2/6), CSO (1/29), WindowSecurity.com (1/22), CSO (1/10), Computing Now (1/4)
- 2012:** [59 hits] InternetNews.com (12/21), eSecurityPlanet (12/20), CSO (12/20), PC Advisor (12/20), v3.co.uk (12/18), CSO (12/14), Network World (12/11), RIT blog (12/3), Democrat and Chronicle (11/29), darkreading (11/15), Securology (11/14), threatpost (11/13), Kings of War (11/13), Schneier on Security (11/8), IT Knowledge Exchange (11/8), CSO Online (11/7), Informationweek (11/1), **slashdot** (10/19), CSO Online (10/18), threatpost (9/26), Search Enterprise Desktop (9/25), CyBlog (9/25), darkreading (9/21), **CBS/C!Net** (9/19), Security Week (9/18), darkreading (9/18), Minded Security Blog (9/18), EMC^2 Product Security Blog (9/18), CSO Online (9/18), CSO Online (9/18), CSO Online (8/31), **Los Angeles Times** (7/25), ComputerWorld (7/9), **Wall Street Journal** (6/7), The Atlantic Wire (6/7), **Wall Street Journal** (6/6), **Wall Street Journal** (5/31), CSO (5/31), **Wall Street Journal** (5/30), **Marketplace: PRI** (5/30), **Wall Street Journal** (5/29), CSO Australia (5/15), TechTarget (5/9), **Chicago Tribune** (5/8), Network World (5/3), Brookings (5/1), International Business Times (4/27), The Dartmouth (4/27), ComputerWorld (4/26), ComputerWorld (4/25), Network World (4/15), CSO (3/23), **CBS/C!Net** (3/3), PRWeb (2/28), CSO (2/15), Network World (2/14), Nextgov (1/19), **CBS/C!net** (1/12), threatpost (1/10)
- 2011:** [42 hits] CSO (12/21), CSO Online (11/27), SearchSecurity (10/26), PCWorld (10/7), SearchSecurity (10/4), SAFEcode blog (9/30), Application Development Trends (9/20), OnlySoftwareBlog (9/29), darkreading (9/29), Help Net Security (9/28), CSO Online (9/27), Cyblog (9/27), Global Security Mag (9/27), DeviceLine Blog (9/27), **Forbes** (9/27), SearchSecurity (9/27), The Lane Report (9/13), Threatpost (9/13), **slashdot** / (9/13), SearchSecurity (8/3), **Washington Post** (8/2), darkreading (7/7), CSO Online (6/10), FierceCIO (6/8), SearchSecurity (6/7), **New York Times** (6/7), Threatpost (6/2), Digital Journal (4/21), Security (4/1), Threatpost (3/31), darkreading (3/30), SearchSecurity (3/30), **PCWorld** (3/15), Application Development Times (3/14), SearchSecurity (3/14), Digital Journal (3/9), Hospitality.net Industry News (2/9), Dasient Blog (2/8), **Forbes** (2/4), The Journal (1/25), Making Life Easier (1/9), SearchSecurity (1/1)
- 2010:** [89 hits] ZDNet (12/15), Tech Journal South (12/14), The New New Internet (TNNI) (12/2), Threatpost (12/2), **CBS/C!Net** (12/1), 1RainDrop (12/1), Threatpost (11/30), darkreading (11/30), ComputerWeekly (11/26), darkreading (10/12), **CBS/C!net** (10/5), Invoicea (10/1), Six Lines (9/28), CERT podcast (9/28), CTOVision.com (9/27), darkreading (9/23), darkreading (9/22), The Register (9/10), SD Times (9/1), ABA Journal (9/1), TaoSecurity (8/23), **Forbes** (8/18), Application Development Trends (8/17), gagsandgiggles.com (8/17), Dr. Dobbs (8/6), World of Warcraft Gold Blog (7/7), UGN InfoManager (6/20), Dr. InfoSec™ Blog (6/9), MIT Review (6/7), ComputerWorld UK (5/20), Security Wire Weekly (5/17), SearchSecurity.com (5/13), Help Net Security (5/12), Hacking Expose (5/13), CSO Online (5/12), EarthTimes (5/12), ComputerWeekly.com (5/12), Threatpost (5/12), My Security Planet (5/12), Neil Roiter (5/12), Cyblog (5/12), **CBS/C!net** (5/12), darkreading (5/12), SAFEcode (5/12), eSecurity Planet (5/12), GEEKONOMICS (5/12), WASC (5/12), FOX Business (5/12), MSDN blog (5/12), Justice League (5/12), **Forbes** (5/5), **Entrepreneur Magazine** (5/1), TechNewsWorld (4/22), **CBS/C!net** (4/9), **Orlando Sentinel** (4/1), Information Security Magazine (4/1), darkreading (3/31), RecentPoker.com (3/27), Inside the Computer Society (IEEE Computer Society) (3/24), BankInfoSecurity (3/18), Blizz Hackers blog (3/7), Government Computer News (3/4), Cyblog (3/2), Infosecurity (3/2), News from the Lab (2/23), InformationWeek (2/19), Infosecurity (2/18), Jeremiah Grossman (2/18), Mark Hess' Behind The Lines (2/18), Security Management (2/17), Gov Info Security (2/16), SearchSecurity.com (2/16), Bank Info Security (2/16), ComputerWorld (2/16), Scientific American Observations (2/16), Washington Technology (2/16), darkreading (2/16), CIO (2/16), SearchSecurity.com (2/12), **CBS/C!net** (2/9), Internet SecurityT Group.(2/8), Gartner blog (2/3), **CBS/c!net** (2/1), good code (1/28), Geekonomics (1/27), Rock'n'Roll Programming (1/26), GEEKONOMICS (1/21), CERIAS podcast (1/4), Imperva podcasts (1/4)
- 2009:** [97 hits] TradingMarkets.com (11/12), SC Magazine (11/12), Help Net Security (11/11), Minded Security Blog (11/11), Digital Underground (11/6), Public Intelligence Blog (11/5), SecuObs (10/24),

1Raindrop (10/24), SearchSecurity.com (10/22), **Il Sole 24 ore** (10/22), UA News (10/20), 1Raindrop (10/9), darkreading (10/8), Gartner Blog (9/25), Redmond Developer News (9/17), Computing Now (9/16), SearchSecurity.com (8/18), 404 Tech Support (7/27), Burton Group Blogs (7/21), TechNewsWorld (7/8), ITworld (7/1), Building Real Software (6/25), Dr. Dobbs (6/20), Data Manager Online (6/19), Computerworld (6/10), CSO Online (6/5), cgisecurity.com (6/3), ESET Threat Blog (6/2), Cyblog (5/10), Cylab news (4/27), FierceCIO TechWatch/cnet (4/24), TechNewsWorld (4/23), cnet (4/23), SC Magazine (4/22), Denim Group (4/22), threatpost (4/22), cnet (4/20), RSA Conference 365 (4/19), RSA Conference 365 (4/17), SecurityCurve (4/16), SearchSecurity.com (4/14), threatpost (4/7), PR Newswire (4/7), Emergent Chaos (4/6), ASSET (4/3), IT Professional (4/1), TechNewsWorld (3/31), CERT podcast (3/31), SD Times (3/27), 1Raindrop (3/27), Enterprise Security Blog (3/25), the Blog Ride (3/23), Visual Studio Magazine (3/17), CSO Security Insights (3/17), Application Development Trends (3/17), Ruminations on Architecture and Security (3/13), CyBlog (3/13), Mike Andrews (3/12), the Security Development Lifecycle blog (3/12), Network World (3/12), Techworld.com (3/11), Security Incite (3/11), **BusinessWeek** (3/10), Computer Business Review/Computerworld UK (3/10), marcelosouza.com (3/10), Network World (3/10), CSO online (3/10), TechNewsWorld (3/9), TaoSecurity (3/9), 1Raindrop (3/6), Security Balance (3/6), darkreading.com (3/6), comp.RISKS (3/6), Help Net Security (3/5), Web Security Testing Cookbook blog(3/5), (Sylvan von Stuppe (3/5), SilverStr (3/5), Dr. Infosec (3/4), *New Effort Hopes to Improve Software Security*, **The Wall Street Journal** Blog: Digits <<http://blogs.wsj.com/digits/2009/03/04/new-effort-hopes-to-improve-software-security/>> (3/4) [also see related press at <<http://www.bsi-mm.com/press/>>], cnet China (2/16), SearchSecurity.com (2/16), Enterprise Architecture (2/11), SearchSecurity.com (2/9), 1Raindrop (2/3), 404 Tech Support (2/3), CSO Online (1/20), Computerworld (1/20), LeMagIT (1/20), ITworld (1/19), SearchSecurity.com Security Squad podcast (1/19), The Security Development Lifecycle blog (1/15), SearchSecurity.com (1/15), OWASP podcast #5 (1/15), Off by On (1/12), Emergent Chaos (1/12), Fuzzing blog (1/7)

2008: [73 hits] CEOWORLD Magazine (11/28), GranneBlog (11/21), 1Raindrop (11/18), Bleadof's world of tinkering (11/13), SearchSecurity (10/20), TechNewsWorld (10/17), **Forbes.com** (10/16) also CBC News, Gamefan blog, Game Hype, cgisecurity.com, Rupeesmatter.com, Sify, SearchSoftwareQuality.com (10/15), Business Wire (9/22), ultimate windows (9/18), System Advancements at the Monastery (9/16), Cyberpunk as a commodity (9/16), FierceCIO (9/3), Redmond Developer News (9/1), **Forbes** (8/29), 1 Raindrop (8/25), CERT Podcast Series (8/20), Ammasajan's Weblog (8/19), ComputerWorld (8/18), Security Bytes (8/12), The Secure Software Zone (8/12), darkreading (8/12), Denim Group Blog (8/11), IT168.com (8/2), SD Times (8/1), SearchSecurity.com (7/31), ePrivacyAwareness (7/25), TradingMarkets.com (7/16), Application Development Trends (7/7), Security Management (7/1), Rev Dan Catt (6/30), Computing Reviews (6/27), David LeBlanc's Web Log (6/24), Security Squad Podcast (6/17), A-TeamGroup (6/11), Network Security Podcast (6/10), SearchSecurity.com (6/6), RedOrbit (5/29), 1 Raindrop (5/7), Redmond Developer News (5/1), Blogus Maximus (4/29), SD Times (4/24), Level 1 Wizard (3/18), ComputerWeekly (3/17), The Gazette (3/12), HiR Information Report (2/19), Eon Security Blog (2/18), Centre Daily Times (2/11), HiR Information Report (2/7), The Joshua Tree (2/6), SQAe (2/1), Security Incite (1/31), CSDN (1/28), UW Security Course Blog (1/20), Security Bites (1/18), **slashdot** (1/16), WarCry Network (1/16), Security Incite (1/15), Hacking Truths (1/12), darkreading (1/10), System Advancements at the Monastery (1/10), Engineer Live (1/9), Securology blog (1/8), Security Incite (1/7), Technometria (1/2), Massively (1/1), Redmond Developer News (1/1)

2007: [109 hits] Dr Dobbs (10/5), Pittsburgh Post-Gazette (10/4), Clarke Times-Courier (10/3), **AP** story *Can Video Game Cheating Be Prevented?* (broke story), **ABC News**, **MSNBC**, **Washington Post**, Sun-Sentinel.com, Chicago Tribune, Daily Press, Baltimore Sun, LA Times, Press of Atlantic City, Denver Post, Twin Falls Times-News, nwi.com, MyFox DC, MyFox Kansas City, MyFox Colorado, PhysOrg.com, Video Gaming Blog, AZ Central, Tuscaloosa News, North County Times, Houston Chronicle, Pittsburgh Tribune-Review, PR-Inside.com, CBC.ca, Canada East, The Canadian Press, Salt Lake Tribune, KTRE, Bradenton Herald, The Journal News, Jackson Clarion Ledger, Urbana Daily Citizen, Gamez, **CNN**, The Ledger, Sarasota Herald-Times, TheNewsTribune, News-Leader.com, The State, HeraldNet, Maryville Daily Times, Miami Herald, Inland Valley Daily Bulletin, Deseret News, Gaming Briefs, VH1 Game Break, Video Games, The Great Geek Manual News, NewsOK, Myrtle Beach Sun News, Belleville News Democrat, Waterloo Record, Modesto Bee, Bryan College Station Eagle, E-Commerce Times, TechNewsWorld, Bloomington Pantagraph, Houston Chronicle, Winston-Salem Journal, The Philadelphia Enquirer, Edmonton Sun, Louisville Courier-Journal, canoe.ca, Inside Bay Area, Seattle Post Intelligencer, Akron Beacon Journal, Denver Post, Augusta Chronicle, The London Free Press, Evansville Courier &

- Press, The Albuquerque Tribune, Savannah Morning News, The Chicago Tribune, The Columbus Dispatch (10/1–10/16), DailyBreeze (9/29), Video Game Generation (9/23), PC World (9/17), GameDev.net (9/13), Risk Bloggers (9/11), The Grand Press (9/3), Seven Days (8/29), Slate (8/10), Gamasutra (8/10), Wired (8/9), Network World (7/27), Forbes (7/26), Forbes (7/23), TenTonHammer (7/23), Information Week (7/16), darkreading.com (7/12), PCN (7/2), Security Bytes (6/25), **The Register** (6/21), Light Reading (5/14), Redmond Developer News (5), Enterprise Networking Planet (4/19), SearchSoftwareQuality (4/18), SearchSecurity (3/14), PC World (3/4), Computerworld (2/28), University of Virginia Arts & Sciences Magazine (2/16), eWeek (2/7), darkreading (1/22), InformationWeek (1/3)
- 2006:** [36 hits] SearchSecurity (11/16), Game Industry News (11/9), Hakin9 (11), Application Development Trends (10/20), Forbes (10/25), SearchSecurity (10/13), Forbes (9/14), Slashdot (9/13), **CNN Headline News** (8/30), eWeek (8/7), Game Industry News (8), Dr. Dobbs (6/30), SearchAppSecurity (6/14), Information Week (6/13), Information Week (6/9), SOA Security Architect (6/8), Application Development Trends (6/5), SD Times (6/1), ;login (6), Application Development Trends (5/24), Baseline (5/24), Application Development Trends (5/17), SearchSoftwareQuality (5/9), SearchAppSecurity (5/9), Information Week (4/12), InfoWorld (4/7), Baseline (4/6), **CNN Digital Life** (3/31), San Jose Mercury News (3/27), Application Development Times (3/21), Network World (3/20), Computerworld (3/13), eWeek (3/7), Clarke Times Courier (3/1), eWeek (2/5), Processor (1/13)
- 2005:** [13 hits] Baseline (12/13), SYS-con Media (12/3), eWeek (10/31), **New York Times** (10/5), Indianapolis Star (8/22), Information Week (8/1), *How to Make Software Safer*, **Wall Street Journal** interview (7/18) <http://online.wsj.com/article/0,,SB112128453130584810,00-search.html>, Den Norske Dataforening (6/17), SearchNetworking (5/10), Asia Computer Weekly (4/25), Winchester Star (3/15), Application Development Times (2/23), Software Development Magazine (1/19)
- 2004:** [27 hits] SearchSecurity (12/14), Game Developer (12), Asia Computer Weekly (11/8), CSO Online (11/2), Application Development Times (10/20), security.itworld.com (10/13), SearchSecurity (11/8), Application Development Trends (11/1), Australian Financial Review (8/6), About.com (6/11), informIT (6/11), New Jersey Star Ledger (6/6), **New York Times** (5/20), SearchSecurity (5/17), **Wall Street Journal** (5/14), eWeek (5/12), eWeek (4/22), Application Development Trends (4/14), **Business Week** (4/13), **Wall Street Journal** (4/6), InfoWorld (4/5), Software Development magazine (4), Information Security (4), eWeek (3/24), Computerworld (3/17), Network World (3/8), Baseline (3)
- 2003:** [7 hits] CIO Magazine (11/1), New Jersey Star-Ledger (8/15), **Wall Street Journal** (8/15), CSO Magazine (8), SC Magazine (4), SD Magazine (3/26), SD Times (3/1)
- 2002:** [42 hits] **Businessweek** (12/17), Seattle Post-Intelligencer (9/2), Atlanta Journal-Constitution (8/31), San Diego Tribune (5/20), **Reuters/CNN/Philadelphia Enquirer/San Jose Mercury News** (4/28), **New York Times** (4/14, front page), Seattle Times (4/14), Washington Business Journal (3/22), Information Security Magazine (3), *Microsoft Flaw Coverage* (2/14):**Wall Street Journal** (broke story), cnet, **Reuters/New York Times**, zdnet, Internet News, ComputerWorld, **AP**, **USA Today**, E4 Engineering, Seattle Times, Reuters/Wired, Information Week, NewsFactor Network, ENT News, **MSNBC**, PC World/IDG, Reuters/Excite, eWeek, **International Herald Tribune** (see < <http://www.cigital.com/news/news-arch-mscompiler.html>>); **LA Times** (2/11), via Satellite (2/2), San Diego Union Tribune (1/28), **Reuters/CNN** (1/17), **Wall Street Journal** (1/17), eBusiness Journal (1/7), Internet World (1/3)
- 2001:** [14 hits] **Businessweek online** (12/11), MIT Technology Review (12), News.com (11/28), ZDNet (11/28), C!Net (11/26), **CNN** (10/26), **Wall Street Journal** (10/15), San Jose Mercury News (9/19), Interactive Week (6/25), SD Times (5/1), Interactive Week (4/2), SD Times (4/1), Interactive Week (3/30), Christian Science Monitor (2/15),
- 2000:** [13 hits] Interactive Week (11/15), Network World (10/11), ZDNet (9/28), C!Net (8/17), Pacific Connection (8), Federal Computer Week (6/16), Infoworld (5/16), NY Daily News (5/14), C!Net (5/11), C!Net (5/5), Interactive Week (3/13), C!Net (2/12), C!Net (2/9),
- 1999:** [37 hits] **New York Times** (12/22), Interactive Week (12/20), Network World Fusion (12/17), **Washington Post** (12/16), InfoWorld (12/16), PC Week (12/16), **CNN** (12/16), ZDNet (12/16), C!Net (12/15), Internet News (12/15), Computer World (12/15), **Wall Street Journal** (MSNBC, ZDNet, 12/14), Computer World (11/15), C!Net (11/14), Internet World (10/1), **New York Times** (11/13), Internet News (11/13), **CNN** (11/3), **MSNBC** (11/3), **CNNi** (11/2), C!Net (8/30), Javaworld (8/30), C!Net (8/25), Industry Standard (6/28), Interactive Week (6/9), Interactive Week (4/12), Infoworld (4/8), Internet News (4/7), PC Week (4/7), **USA Today** (4/6), **Wall Street Journal** (3/26), Interactive Week (2/27), **ZDTV Screen Savers** (2/2), **USA Today** (1/26), Internet World (1/11), ZDNet (1/6)

1998: [11 hits] CNN (12/22), Infoworld (12/21), Sys-CON Radio (12/14), Interactive Week (11/25), Computerworld (7/20), TechWeb (7/17), C!Net (7/17), **New York Times** (7/17), Internet World (5/11), C!Net (2/19), Network (2)

1997: [18 hits] Network World (11/3), WebWeek (11/3), ZDNet (11/10), MokaByte (7), WebWeek (6/23), IntraNet (6), C!Net (5/9), **Wall Street Journal** (4/30), C!Net (4/29), ZDNet (4/29), PC Week (4/28), First Monday (4), Web Review (3/24), Computerworld (3/17), **Wall Street Journal** (3/14), Information Security Bulletin (3), Web Week (1/20), Packet (1/1)

KEYNOTES AND INVITED LECTURES

Keynote Talks

Looking Forward and Backwards from BSIMM

BSIMM Community Conference, Amelia Island, FL, October 2018.

A Brief History of Software, Security, and Software Security: From Mainframes to Embedded Systems to Connected Cars

Automotive Electronics Ludwigsburg, Ludwigsburg, Germany, May 2018

Four CISO Tribes and Where to Find Them

BSIMM Europe Community Conference, London, May 2018.

Segurinfo 2018, Buenos Aires, Argentina, April 2018.

BSIMM Community Conference, Scottsdale, AZ, October 2017.

Seven Things: Frank Zappa, T. Coraghassen Boyle, and 21 Years in Security

Qualcomm Mobile Security Summit, San Diego, CA, May 2018.

AlphaTech, Washington, DC, November 2017.

OWASP Italy Day, Cagliari, Italia, October 2017.

Shmoocon, Washington, DC, January 2017.

A Brief History of Software, Security, and Software Security: Bits, Bytes, Bugs, and the BSIMM

Sikkerhetsfestivalen, Lillehammer, Norway, August 2019.

Daimler Global Technology Conference, Stuttgart, Germany, April 2017.

University of Virginia, Distinguished Lecture, Charlottesville, VA, March 2017.

Codenomicon Europe 2017, Nuremberg, Germany, March 2017.

CTO Forum, San Francisco, CA, February 2017.

AT&T Cybersecurity Conference, New York, NY, October 2015.

Scaling a Software Security Initiative: Lessons from the BSIMM

BSIMM Europe Community Conference, London, UK, May 2017.

OWASP CA, Los Angeles, CA, January 2017.

ASTQB, Washington, D.C., September 2015.

Bug Parades, Zombies, and the BSIMM: A Decade of Software Security

Genetec ConnectDev16, Montreal, Canada, February 2016.

Booster, Bergen, Norway, March 2014.

James Madison University Distinguished Lecture, Harrisonburg, VA, January 2014.

NYIT, New York, NY, September 2013.

HP Protect 2013, Washington, DC, September 2013.

ARES: SecSE workshop, Regensburg, Germany, September 2013.

NITRD/SCORE, Washington, DC, July 2013.

CISSE, Mobile, AL, June 2013.

Archimedes Medical Device Security Summit, Ann Arbor, MI, May 2013.

Dean's Lecture Series, Golisano College of Computing, RIT, Rochester, NY, November 2012.

Rochester Security Summit, Rochester, NY, October 2012.

WSeg/IAIO, La Plata, Argentina, August 2012.

OWASP Europe, Athens, Greece, July 2012.

Software Security and the BSIMM

GE Security Forum, Washington, DC, October 2016.
Flight16, Black Duck Software, Boston, MA, October 2016.
Digicert Security Summit, Las Vegas, NV, November 2015.
Software Engineering Symposium, Lincoln Lab, Boston, MA, September 2015.
CCSC-E, Yorktown, PA, November 2014.
Rockstars of Cybersecurity, IEEE, Austin, TX, September 2014.
AppsecUSA, Denver, CO, September 2014.
AERES, Vienna, Austria, August 2011.
Software Experts Summit, Mountain View, CA, May 2011.
Fannie Mae, CSO Security Summit, Washington, DC, January 2011.
SE OOP, Munich, Germany, January 2010.
Distinguished Lecture, University of Leuven, Leuven, Belgium, February 2010.

Cyber War, Cyber Peace, Stones and Glass Houses

Connecticut Information Symposium, Hartford, CT, November 2015.
CACR Lecture, Indiana University, Bloomington, IN, April 2014.
Dartmouth College, ISTS and War & Peace Studies Program, Dartmouth, NH, April 2012.

The Cybersecurity Threat Landscape

PNC Cyberfest, Pittsburgh, PA, November 2015.

The Building Security In Maturity Model (BSIMM)

Archimedes, Ann Arbor, MI, May 2018.
EMC Cybersecurity Symposium, Boston, MA, December 2015.
FFIEC Technology Conference, Washington, DC, August 2014.
Department of Homeland Security Software Assurance Forum, Washington, DC, March 2012.
NESSOS, Internet Days EU, Poznan, Poland, October 2011.
NLgovCERT, Rotterdam, the Netherlands, November 2010.
ELSAG datamat, Pescara, Italy, October 2010.
SANS Software Security Summit, San Francisco, CA, February 2010.
Siemens Software Security Day, Munich, Germany, January 2010.
OWASP Brazil, Brasilia, Brazil, October 2009.
UNCC Security Conference, Charlotte, NC, October 2009.
CMU CyLab Corporate Partners Meeting, Pittsburgh, PA, October 2009.
NY Poly Distinguished Lecture, Brooklyn, NY, September 2009.
FFIEC/OCC Technical Conference, Washington, DC, August 2009.
Unix Security, Montreal, Canada, August 2009.
FS-ISAC (financial services information security assurance center), St. Pete, Florida, May 2009.
ROOTS 2009, Bergen, Norway, April 2009.
Department of Homeland Security Software Assurance Forum, Washington, DC, March 2009.

Technology Transfer: A Software Security Case Study

Oops!a/SPLASH, Portland, OR, October 2014.
JUI/JAOI, La Plata, Argentina, August 2012.

How do I Secure my Software?

National Cooperative Grocers Association, Montreal, Canada, October 2014.
Hotel Technology Next Generation, San Diego, CA, February 2011.

Information Security Forum: Master of Ceremonies

Paris, France, November 2013.

Attack Trends –or– Why Software Security

Troopers, Heidelberg, Germany, March 2012.
ACS, Control Systems Security, Washington, DC, September 2011.
SNI Security Conference, Knoxville, TN, September 2011.
CERN, Geneva, Switzerland, March 2011.
Bank of America Security Summit, Charlotte, NC, May 2010.

Architectural Risk Analysis

Innovation Sandbox, RSA, San Francisco, CA, February 2011.

Software Security: State of the Practice

SAP Quality Day, Heidelberg, Germany, March 2011.
Secappdev, Leuven, Belgium, March 2009.
NDSS, San Diego, CA, February 2009.
cioZone virtual keynote, September 2008.
Fidelity Developer Forum, Boston, MA, September 2008.
World Congress on Software Quality, Washington, DC, September 2008.
SIFMA, NY, NY, June 2008.
SANS Application Security Summit, Las Vegas, NV, June 2008.
BITS, Washington, DC, March 2008.
Interop Moscow, Moscow, Russia, April 2008.
OWASP Europe, Ghent, Belgium, May 2008.

Smart Grid Equals Dumb Security?

NRECA, Atlanta, GA, February 2010.

Exploiting Online Games

Sioux Hot or Not, Eindhoven, The Netherlands, November 2009.
Distinguished Lecture, Orfalea College School of Business, Cal Poly, San Luis Obispo, CA, October 2008.
Security Day, Export Import Bank, Washington, DC, September 2008.
Forrester Security Conference, Boston, MA, September 2008.
OWASP Europe, Ghent, Belgium, May 2008.
OWASP Hartford Chapter, Hartford, CN, February 2008.
NDSS, San Diego, CA, February 2008.
National Academy of Sciences, Washington, D.C., January 2007.
ROOTS 2007, Bergen, Norway, April 2007.
Usenix Technical Conference, Santa Clara, CA, June 2007.
Usenix Security, Boston, MA, August 2007.
MISTI Network Security, San Francisco, CA, September 2007.
DTCC Security Day, New York, NY, September 2007.
eCrime Conference, Pittsburgh, PA, October 2007.

Software Security Testing

FutureTest, NY, NY, February 2008.
Verify, Washington, DC, October 2007.
STARwest, LA, CA, October 2006.

Software Security: Building Security In

Hotel New Technology Group, Lausanne, Switzerland, October 2007.
S3 con (Software Security Summit), San Jose, CA, April 2007.
Canadian Bankers Association, Toronto, CA, January 2007.
ISSRE 2006, Chapel Hill, NC, November 2006.
IBM Security Forum, White Plains, NY, September 2006.
Symantec CIO Summit, Sea Island, GA, September 2006.
S3 con (Software Security Summit), San Diego, CA, January 2006.
Financial Services ISAC, Florida, May 2006.
Software Best Practices, Boston, MA, September 2006.

Exploiting Software

Software Best Practices, Boston, MA, September 2005.
ROOTS 2005, Bergen, Norway, April 2005.
Security Decisions 2005, Chicago, IL, April 2005.

Wireless Security

Security Conference, MIS Training Institute, Orlando, FL, February 2003.

Building Secure Software

Sustainable Computing Consortium, Pittsburgh, PA, September 2003.
XP Universe, New Orleans, LA, August 2003.
Software Development West, Santa Clara, CA, March 2003.
Foundations of Software Engineering, Charleston, SC, November 2002.
SREIS, Raleigh, NC, October 2002.
Secure iWorld, MIS Training Institute, San Diego, CA, August 2002.
NATO Workshop on Advances in Intrusion Detection, Estoril, Portugal, May 2002.
NORDU 2002, 4th EurOpen Usenix Conference, Helsinki, Finland, February 2002.

Attacking Malicious Code

SANS 2001, Baltimore, MD. May 2001.

Towards Secure Executable Content: Java Security

HASE 97, IEEE High-Assurance Systems Engineering Workshop, Bethesda, MD. August 1997.

Why Monitoring Mobile Code is Harder than it Sounds

1st Usenix Workshop on Intrusion Detection and Network Monitoring, Santa Clara, CA, April 7-12 1999.

Selected Panels

DevOps Throw Down with Chris, Gary, Jeremiah, and Shannon

RSA, San Francisco, CA, March 1, 2016.

Security Principals Versus the Real World: CSO Panel

RSA, San Francisco, CA, February 25, 2014.

Managing Security Risk: The CSO Panel

RSA, San Francisco, CA, February 27, 2013.

Innovation and Technology Transfer in Security: From the lab to general use

RSA, San Francisco, CA, February 29, 2012.

Cyber War: How We Learned to Stop Worrying and Love the Cyber Bomb

RSA, San Francisco, CA, February 16, 2011.

Picking a Yardstick to Measure Your Software Security Practice

RSA, San Francisco, CA, February 24, 2010.

Lifestyle Hacking: Social Networks and Gen Y Meet Security and Privacy

RSA, San Francisco, CA, February 23, 2010.

Surveillance: Security, Privacy and Risk

RSA 2209, San Francisco, CA, April 10, 2009.

Software security meets hardware security: Real attacks and best practices

COMDEX, Las Vegas, NV, November 18, 2003.

Proactive versus Reactive Security: What's the best mix?

RSA, San Francisco, CA, February 25, 2004.

Networld+Interop, Las Vegas, NV, 2003.

Software Security: The Emperor's New Clothes?

ISOC Network and Distributed System Security Conference, San Diego, CA, February 2002.

Attacking Malicious Code

IEEE ICDSN, New York, NY, June 28, 2000.

Will open source really improve security?

DARPA workshop on information security, Phoenix, Arizona, April 19, 2001.

IEEE Symposium on Security and Privacy 2000, Oakland, CA, May 16, 2000.

The Economics of Security

ISOC Symposium on Network and Distributed System Security, San Diego, February 3, 2000.

Software Risk Management for Embedded Internet

Embedded Internet Conference, Santa Clara, CA, September 1999.

Embedded Internet Conference, San Jose, CA, September 2000.

The Java Virtual Machine

Java Business Expo, JavaWorld panel, New York, December 1998.

E-Commerce Security

ISOC Symposium on Network and Distributed System Security, San Diego, March 12, 1998.

Is Information Security an Oxymoron?

COMPASS 97, 12th Annual Conference on Computer Assurance, Gaithersburg, MD. June 1997.

Java Security

ISSRE '96, 7th International Symposium on Software Reliability Engineering, White Plains, NY. Oct 1996.

Security Siblings

NISSC, 19th National Information Systems Security Conference, Baltimore, MD. Oct 1996.

Secure Networking and Assurance Technologies

NISSC, 19th National Information Systems Security Conference, Baltimore, MD. Oct 1996.

Selected Invited Lectures, Tutorials, and Trade Shows

Java Security Meets Smart Cards

IEEE Northern Virginia Chapter, Dulles, VA, February 2001.

Mobile Commerce, San Jose, CA, October 2000.

Applied Physics Laboratory, Johns Hopkins University, Baltimore, MD, September 2000.

Cooperation in Security Workshop, TNO, Rotterdam, the Netherlands, September 2000.

Smart Card Forum, Washington, DC, September 1999.

Building Secure Software

CVS, Providence, RI, January 2004.

Hewlett Packard (HP), Cupertino, CA, December 2003.

Wachovia, Charlotte, SC, December 2003.

University of Alabama, Tuscaloosa, AL, October 2003.

CERT/CC, Software Engineering Institute, Pittsburgh, PA, October 2003.

Carnegie Mellon University (CMU), ECE, Pittsburgh, PA, October 2003.

HSBC, NY, NY, July 2003.
 ISSA (Northern Virginia), Reston, VA, June 2003.
 GTECH, West Greenwich, RI, June 2003.
 Dartmouth College, Hanover, NH, June 2003.
 George Mason University, Fairfax, VA, May 2003.
 Johns Hopkins University, Baltimore, MD, March 2003.
 James Madison University, Harrisonburg, VA, February 2003.
 Software Productivity Consortium, Dulles, VA, October 2002.
 Goldman Sachs, NY, NY, October 2002.
 Information Assurance Task Force (IATF), Advanced Physics Laboratory, Johns Hopkins, MD, October 2002.
 Pershing, New York, NY, September 2002.
 Radian Securities, Philadelphia, PA, August 2002.
 State Street Bank, Boston, MA, August 2002.
 Usenix Security, San Fransisco, CA, August 2002.
 AT&T Research, Florham Park, NJ, June 2002.
 Virginia Information Security Exchange (VISE), Richmond, VA, June 2002.
 Istituto per la Ricerca Scientifica et Tecnologica (IRST), Trento, Italy, May 2002.
 University of Missouri, Rolla, Rolla, MI, April 2002.
 Johns Hopkins University, Baltimore, MD, April 2002.
 University of Maryland, College Park, MD, April 2002.
 North Carolina State University, Raleigh, NC, April 2002.
 Xerox PARC, Palo Alto, CA, March 2002.
 Waterloo University, Waterloo, CA, March 2002.
 Women In Technology, Inc. (WITI), Reston, VA, March 2002.
 ISOC Network and Distributed System Security Conference, San Diego, CA, February 2002.
 Georgetown University, Washington, DC, February 2002.
 Center for Applied Cryptographic Research, 9th Security Workshop, Ottawa, Canada, November 2001.
 IEEE Northern Virginia Chapter, Dulles, VA, November 2001.
 University of Virginia, Charlottesville, VA, October 2001.
 Information Warfare Conference, NY, NY, October 2001.
 FS-ISAC, Financial Services Information Sharing and Analysis Center, Fort Meyers, Florida, October 2001.
 2nd International School On Foundations of Security Analysis and Design, Bertinoro, Italy, September 2001.
 CSI Network Security, New Orleans, LA, June 2001.
 CommerceNet, Social Security Administration, Baltimore, MD, May 2001.
 Microsoft Research Cambridge, Cambridge, UK, April 2001.
 Barclay's, London, UK, April 2001.
 Stanford University, Palo Alto, CA, April 2001.
 Microsoft, Redmond, WA, March 2001.
 University of Virginia Department of Computer Science, March 2001.
 ISOC Network and Distributed System Security Conference, San Diego, CA, February 2001.
 Indiana University Department of Computer Science, January 2001.
 Purdue University (CERIAS), West Lafayette, IN, January 2001.
 SIAC, New York, NY, May 1999.
 Federal Reserve Bank of Chicago, Chicago, IL, July 2000.

Mobile Code Security and Java Architecture

ISOC Network and Distributed System Security Conference, San Diego, CA, February 1999.
 Charles Schwabb, San Fransisco, CA, July 1999.
 ISOC Network and Distributed System Security Conference, San Diego, CA, February 2000.

New Issues in Java Security

Java Expo Europe, London, July 1998.
 Software Development Expo East, Washington, D.C., August 1998.
 SIGS Conference for Java Developers, San Jose, CA, October 1998.
 SANS Network Security 98, Orlando, FL, October 1998.
 CSI Computer Security Conference and Exhibition, Chicago, November 1998.

Electronic Commerce Security

Internet and Electronic Commerce (IEC) Conference and Exposition, New York, April 1998.
Internet Commerce Expo (ICE), Los Angeles, September 1998.

What's the deal with COTS?

Universite' Laval, Quebec City, Canada. April 1998.

The Security Implications of Push

COMNET panel, Washington D.C., January 28, 1997.

Java Security Tutorial

USENIX Security Symposium, San Antonio, January 26, 1997.

Towards Secure Executable Content: Java Security

Cornell University, Ithaca, NY. November 1996.
University of Virginia, Charlottesville, VA. April 1997.
DARPA headquarters, Arlington, VA. March 1997.
NCSA Network Security and Firewalls conference, San Jose, CA, October 27-28.
CSI's 24th Annual Computer Security Conference, Washington, DC, Nov. 1997.
University of Massachusetts, Computer Science Department, December 4, 1997.
LASER workshop in Boston, December 5, 1997.
EuroSec '98, Paris, France. March 1998.
Universite' Laval, Quebec City, Canada. April 1998.
University of Arizona, Tucson, AZ. November 11, 1998.

Two Classes of Hostile Applets in Java

NCSA infoWARcon, Washington, DC. September 1997.

Enabling Better Security in Java

Java Expo, New York, NY. June 1997.
Java Expo Europe, London, UK. July 1997.

Java Security: Hostile Applets, Holes, & Antidotes

Mid-Atlantic Java Users Group (MAJUG). April 1997.
Firewalls, Web, & Internet Security, NCSA, McLean, VA. April 1997.
Triangle Area Java User's Group, Durham, NC, October 20, 1997.

Is Java Secure?

University of Arkansas, Fayetteville, AK. March 1997.

Java Security (two lecture series)

Java Expo, New York, NY, August 1996.
DevCon 96 Europe, Wiesbaden, Germany, September 1996.

Untangling the Woven Web: Testing Web-based Software

Thirteenth International Conference on Testing Computer Software, Washington, D.C., June 1996.

Letter Spirit (part one): Emergent High-Level Perception of Letters Using Fluid Concepts.

George Mason University – Krasnow Institute Lectures, Fairfax, VA, February 1996.

Letter Spirit: An Architecture for Creativity in a Microdomain.

Istituto per la Ricerca Scientifica e Tecnologica, Trento, Italy, May 1994.

Letter Spirit: Recognition and Creation of Letterforms Based on Fluid Concepts.

State University of New York – Binghamton, Cognitive Science Colloquium, Binghamton, NY, September 1992.

FELLOWSHIPS AND AWARDS

2014 Career Achievement Award, Indiana University School of Informatics and Computing

2006 IEEE Computer Society Golden Key

1996 Reliable Software Technologies: Rookie of the Year

1996 Indiana University Cognitive Science Distinguished Research Award

1996 Nominated for the Association of Computing Machinery (ACM) Distinguished Dissertation Award by the Indiana University Department of Computer Science

1995 Nominated for the 1995 Indiana University Distinguished Thesis Award (One of nine finalists.)

1988-89 Indiana University Research and University Graduate School Fellowship

PROFESSIONAL SERVICE

Computer Security Community

2017 *Program Committee*, IEEE SecDev 2017, October 2017, Boston, MA.

2016 *Program Committee*, IEEE SecDev 2016, October 2016, Boston, MA.

2015 *Invited Talks Committee*, USENIX Security Conference, August 2015, Washington, D.C.

2008 *Invited Talks Chair*, ISOC Network and Distributed System Security Conference, San Diego, CA.

2008 *Program Committee*, IEEE Security & Privacy Conference, May 2008, Oakland, CA.

2007 *Invited Talks Chair*, USENIX Security Conference, August 2007, Boston, MA.

2006 *Invited Talks Chair*, USENIX Security Conference, July 2006, Vancouver, BC, Canada.

2005 *Invited Talks Chair*, USENIX Security Conference, July 2005, Baltimore, MD.

2003 *Program Chair*, DIMACS Software Security Workshop, January 2003, Florham Park, NJ.

2000 *General Chair*, ISACC 2000: The Software Risk Management Conference, September 2000, Washington, D.C.

1999-2002 *Steering Committee*, ISOC Network and Distributed System Security Conference, San Diego, CA.

2000-2001 *Steering Committee*, Embedded Internet Conference, September, San Jose, CA.

2002 *Program Committee*, ISOC Network and Distributed System Security Conference 2002, February, San Diego, CA.

2001 *Program Committee*, ISOC Network and Distributed System Security Conference 2001, February, San Diego, CA.

2000 *Program Committee*, ISOC Network and Distributed System Security Conference 2000, February, San Diego,

CA.

2000 *Program Committee, Publicity Chair*, The First Workshop on Security and Privacy in E-Commerce, November 4, Athens, Greece.

2000 *Program Committee*, 5th IEEE Enterprise Security Workshop, June 14-16, NIST, Gaithersburg, MD.

2000 *Program Committee*, Information Survivability Workshop 2000, October 24-26, Boston, MA.

1999 *Program Committee*, 4th IEEE Enterprise Security Workshop, July 17-19, Stanford University.

1999 *Program Committee*, USENIX Technical Conference, June 6-11, Monterey, CA.

1999 *Program Committee*, First International Software Assurance Certification Conference (ISACC '99), March 1-3, 1999, Washington, D.C.

1998 *Program Committee*, Information Survivability Workshop 1998, October 28-30, Orlando, FL.

1997 *Treasurer*, for the 12th Annual Conference on Computer Assurance (Compass 97), June 1997, Bethesda, Md.

Artificial Intelligence Community

1996-2007 JETAI: Editorial Board of the *Journal of Experimental and Theoretical Artificial Intelligence*

1995 *Program Committee*, of RoboLearn 96 (held in conjunction with the 1996 Florida Artificial Intelligence Research Symposium)

Professional Affiliations

- *Cognitive Science Society*
- *American Association of Artificial Intelligence (AAAI)*
- *IEEE Computer Society*

LANGUAGES

Italian: read, write, speak well. (Lived for a year in Italy.)

French: read, speak at rudimentary level.

CLEARANCE

Secret, Department of Defense

RESEARCH INTERESTS

My research interests are in the areas of: 1) machine learning security; 2) software security; 3) software exploit; 4) online game security; 5) mobile code security (especially Java and .NET); 6) malicious code and technologies to counter it; 7) creativity and artificial intelligence, especially as related to high-level perception and concepts; 8) genetic algorithms, emergent computation, and artificial life; 9) Connectionist models of cognition; and, 10) music cognition, especially the perception and production of rhythmic patterns.

