

Nicole L. Beebe, Ph.D.
Melvin Lachman Distinguished Professor
Professor of Cyber Security

The University of Texas at San Antonio
Department of Information Systems & Cyber Security
One UTSA Circle, San Antonio, Texas 78249
Phone: 210-458-6301(w), 210-269-5647(c)
Email: nicole.beebe@utsa.edu

RESEARCH / TEACHING INTERESTS

Digital Forensics (media / network forensics, intelligent forensic algorithms, IoT forensics)
Cyber Security (insider threat, malware risk assessment & classification)
Data Analytics (cyber analytics, computational digital forensics)

EDUCATION

Doctorate of Philosophy, Information Technology, 2007
The University of Texas at San Antonio, College of Business
Dissertation: "Improving Information Retrieval Effectiveness in Digital Forensic Text String Searches: Clustering Search Results Using Self-Organizing Neural Networks"

Master of Science, Criminal Justice, 1997
Georgia State University
Thesis: "DoD Procurement Fraud—A Trend Analysis 1983-1996"

Bachelor of Science, Electrical Engineering, 1995
Michigan Technological University

CERTIFICATIONS/LICENSES

CISSP (Certified Information Systems Security Professional), since Dec 2001 (#27460)
CCFP (Certified Cyber Forensics Professional), since Jul 2013 (#27460)
EnCE (EnCase Certified Digital Forensics Examiner), 2004-2019
ACE (Access Data Certified Examiner), 2009-2018

WORK EXPERIENCE

2019-Present, Professor & Chair, Dept. of Information Systems & Cyber Security, UTSA
2015-Present, Director, Cyber Center for Security & Analytics, Univ. of Texas at San Antonio
2015-Present, Melvin Lachman Distinguished Professor, Univ. of Texas at San Antonio
2014-2019, Associate Professor, The University of Texas at San Antonio
2007-2018, Manager, Digital Forensics & Investigations, HEI S&S / Digitactics, Inc.
2008-2014, Assistant Professor, The University of Texas at San Antonio
2007-2008, Visiting Assistant Professor, The University of Texas at San Antonio
2003-2007, Instructor & Research Assistant, The University of Texas at San Antonio
2001-2007, Computer Crime Investigator, USAF (Reservist; Highest Rank: Major)
2001-2003, Network Security Engineer, Science Applications Int'l Corp. (SAIC)
1999-2001, Chief, Computer Investigations & Operations, US Air Force (Active Duty)
1998-1999, Computer Crime Investigator, US Air Force (Active Duty)
1995-1998, Electrical Engineer, US Air Force (Active Duty)

COURSES TAUGHT (*DEVELOPED)

*IS 7033 Topics: Information Systems Security Research
*IS 6973 Special Problems in IT: Advanced Topics and Research in Digital Forensics
*IS/ACC 6973 Special Problems in IT: Fundamentals of Cyber Forensics
*IS 6713 Data Foundations (in MS Data Analytics program)
*IS 6363 Computer Forensics
*IS/ACC 5513 Fundamentals of Information Assurance
*IS 4953 Special Topics in IS: Pathogenic Outbreak Investigations
*IS 4523 Digital Forensic Analysis II
*IS 4483 Digital Forensic Analysis I
IS 3513 Information Assurance and Security
*IS/ACC 3503 Attack & Defend: An Introduction to Information Assurance
*IS/ACC 3433 Introduction to Computer Forensics
IS 1503 Introduction to Cyber Security
*COR 1403 Freshman Seminar for Business Majors

JOURNAL PUBLICATIONS (PEER-REVIEWED)

1. De La Torre Parra, Gonzalo, Paul Rad, Kim-Kwang Raymond Choo, **Nicole Lang Beebe**, "Detecting Internet of Things Attacks using Distributed Deep Learning," *Journal of Network & Computer Applications* (forthcoming).
2. Maasberg, Michele, Xiao Jerry Zhang, Myung Ko, Stewart Miller, **Nicole Lang Beebe**, "An Analysis of Motive and Observable Behavioral Indicators Associated with Insider Cyber Sabotage and Other Attacks," *IEEE Engineering Management Review*, (forthcoming).
3. **Beebe, Nicole Lang** and Frederick R. Chang (2019) "Cybersecurity: Rethinking the Definition of Insider Threat," *The BRIDGE: Linking Engineering & Society*, National Academy of Engineering (49:3), pp 12-19.
4. Zhang, Xiaolu, Kim-Kwang Raymond Choo, **Nicole Lang Beebe** (2019) "How do I share my IoT forensic experience with the broader community? An automated knowledge sharing IoT forensic platform," *IEEE Internet of Things Journal* (6:4), pp 6850-6861.
5. Silva, Samuel Henrique, Paul Rad, **Nicole Lang Beebe**, Kim-Kwang Raymond Choo, Mahesh Umapathy (2019) "Cooperative Unmanned Aerial Vehicles with Privacy Preserving Deep Vision for Real-Time Object Identification and Tracking," *Journal of Parallel and Distributed Computing*, (131), pp 147-160.
6. Zhang, Xiaolu, Justin Grannis, Ibrahim Baggili, **Nicole Lang Beebe** (2019) "Frameup: An Incriminatory Attack on Storj: A Peer to Peer Blockchain Enabled Distributed Storage System," *Journal of Digital Investigation*, vol 29, pp 28-42.
7. Young, Diana, **Nicole Lang Beebe**, Glenn Dietrich, Charles Liu (2016) "An Empirical Examination of an Agile Contingent Project/Method Fit Model," *Communications of the Association for Information Systems (CAIS)*, (39:1), pp 267-296.
8. **Beebe, Nicole Lang**, Jan Guynes Clark, Frederick R. Chang, Priya Padmanabhan (2014) "Ranking Publication Outlets for Information Security Research," *Journal of Information System Security*, (10:2), pp 37-57.
9. **Beebe, Nicole Lang** and Lishu Liu (2014) "Clustering Digital Forensic String Search Output," *Journal of Digital Investigation*, (11:4), pp 314-322.
10. **Beebe, Nicole Lang**, Diana L. Young, Frederick R. Chang (2014) "Framing Information Security Budget Requests to Influence Investment Decisions," *Communications of the Association for Information Systems (CAIS)*, (35:1), pp 133-143.

11. Maasberg, Michele and **Nicole Lang Beebe** (2014) "The Enemy Within the Insider: Detecting the Insider Threat Through Addiction Theory," *Journal of Information Privacy and Security (JIPS)*, (10:2), pp 59-70.
12. **Beebe, Nicole Lang**, Laurence A. Maddox, Lishu Liu, Minghe Sun (2013) "Sceadan: Using Concatenated N-Gram Vectors for Improved Data/File Type Classification," *IEEE Transactions on Information Forensics and Security*, (8:9), pp. 1519-1530.
13. Ko, Myung, Ruben Mancha, **Nicole Lang Beebe**, Hyun Shik Yoon (2012) "Customers' Personality, Their Perceptions, and Green Concern on Internet Banking Use," *Journal of Information Technology Management (JITM)*, (23:4), pp. 21-32.
14. **Beebe, Nicole Lang**, Jan Guynes Clark, Glenn B. Dietrich, Myung S. Ko, Daijin Ko (2011) "Post-Retrieval Search Hit Clustering to Improve Information Retrieval Effectiveness: A Digital Forensics Case Study," *Decision Support Systems (DSS)*, (51:4), pp 732-744.
15. **Nicole Lang Beebe** and V. Srinivasan Rao (2010) "Improving Organizational Information Security Strategy via Meso-Level Application of Situational Crime Prevention to the Risk Management Process," *Communications of the Association for Information Systems (CAIS)*, (26:17), pp 329-358.
16. Clark, Jan Guynes, **Nicole Lang Beebe**, Karen Williams, Linda Shepherd (2009) "Security and Privacy Governance: Criteria for Systems Design," *Journal of Information Privacy and Security*, (5:4), pp 3-30.
17. **Beebe, Nicole Lang** and Jan Guynes Clark (2007) "A Discriminant Model for Predicting Hacker Behavior," *Journal of Information System Security (JISSEC)*, (3:3), pp 3-20.
18. Goles, Tim, Greg White, **Nicole Lang Beebe**, Alberto Dorantes, Barbara Hewitt (2006) "Moral Intensity and Ethical Decision-Making: A Contextual Extension," *The DATA BASE for Advances in Information Systems*, 37(2-3), pp 86-95.
19. **Beebe, Nicole Lang** and Jan Guynes Clark (2005) "A Hierarchical, Objectives-Based Framework for the Digital Investigations Process," *Digital Investigation*, (2:2), pp 146-166.

BOOK CHAPTERS (PEER-REVIEWED)

1. **Beebe, Nicole Lang**, Lishu Liu, Zi Ye (2017) "Insider Threat Detection Using Time-Series Based Raw Disk Forensic Analysis," in *Advances in Digital Forensics XIII*, G. Peterson and S. Sheno (eds.), Boston: Springer, pp. 149-167.
2. **Beebe, Nicole Lang**, Lishu Liu, Minghe Sun (2016) "Data Type Classification: Hierarchical Class-to-Type Modeling," in *Advances in Digital Forensics XII*, G. Peterson and S. Sheno (eds.), Boston: Springer, pp 325-343.
3. **Beebe, Nicole Lang** (2009) "Digital Forensic Research: The Good, The Bad, and The Unaddressed," in *Advances in Digital Forensics V*, G. Peterson and S. Sheno (eds.), Boston: Springer, pp 17-33.
4. **Beebe, Nicole Lang** and Glenn Dietrich (2007) "A New Process Model for Text String Searching," in *Advances in Digital Forensics III*, P. Craiger and S. Sheno (eds.), Boston: Springer, pp 179-191.
5. **Beebe, Nicole Lang** and Jan Guynes Clark (2005) "Dealing with Terabyte Datasets in Digital Investigations," in: *Research Advances in Digital Forensics*, M. Pollitt and S. Sheno (eds.), Norwell: Springer, pp. 3-16.

CONFERENCE PROCEEDINGS (PEER-REVIEWED)

1. Aivazpour, Zahra and **Nicole Lang Beebe**, "Cyberbullying: Investigating the Roles of Power and Communication Medium," *Proceedings of the Twenty-fourth Americas Conference on Information Systems (AMCIS)*, New Orleans, Louisiana, August 16, 2018.

2. Mata, Nicholas, **Nicole Lang Beebe**, Kim-Kwang Raymond Choo, "Are Your Neighbors Swingers or Kinksters? Feeld App Forensic Analysis," *Proceedings of the 17th IEEE International Conference on Trust, Security and Privacy in Computing & Communications (IEEE TrustCom 2018)* New York, NY, July 31-Aug 3, 2018.
3. Rad, Paul, Mehdi Roopaei, **Nicole Lang Beebe**, Mehdi Shadaram, Yoris Au, "AI Thinking for Cloud Education Platform with Personalized Learning," *Proceedings of The 51st Annual Hawaii International Conference on System Sciences (HICSS), Big Island, Hawaii, January 3-6, 2018.*
4. Rad, Paul, Mehdi Roopaei, Arun Das, **Nicole Lang Beebe**, "DeceptionNet: AI Model for Encoding Deception Using Facial Micro-Expression," *Proceedings of the Secure Knowledge Management Workshop*, Tampa, FL, October 4-6, 2017.
5. Maasberg, Michele, **Nicole Lang Beebe**, John Warren, Glenn Dietrich, "IT Sabotage: An Empirical Examination of High Risk Insiders Exhibiting Subclinical Psychopathic Traits," *Proceedings of the 10th Annual SIGSEC Workshop on Information Security and Privacy, Pre-ICIS*, Dublin, Ireland, December 10, 2016. (Best Paper Award)
6. Hicks, Chelsea, **Nicole Lang Beebe**, Brandi Haliscak, "Extending Web Mining to Digital Forensics Text Mining," *Proceedings of the Twenty-second Americas Conference on Information Systems (AMCIS)*, San Diego, California, August 10-14, 2016.
7. Maasberg, Michele, Myung Ko, **Nicole Lang Beebe**, "Exploring a Systematic Approach to Malware Threat Assessment," *Proceedings of The 49th Annual Hawaii International Conference on System Sciences (HICSS)*, Kauai, Hawaii, January 5-8, 2016.
8. Maasberg, Michele, John Warren, **Nicole Lang Beebe**, "No Fear: Investigating Psychopathy and Information Security Policy Compliance in Relation to Insider Threat," *Proceedings of IFIP WG8.11/WG11.13 Dewald Roode Information Security Workshop at the University of Delaware*, October 2-3, 2015.
9. Maasberg, Michele, John Warren, **Nicole Lang Beebe**, "The Dark Side of the Insider: Detecting the Insider Threat Through Examination of Dark Triad Personality Traits," *Proceedings of The 48th Annual Hawaii International Conference on System Sciences (HICSS)*, Kauai, Hawaii, January 5-8, 2015.
10. **Beebe, Nicole Lang** and Lishu Liu (2014) "Ranking Algorithms for Digital Forensic String Search Hits," *Proceedings of DFRWS2014, Digital Investigation* (11:S2), pp S124-S132. (Acceptance rate: 28.85%)
11. Garfinkel, Simson, **Nicole Lang Beebe**, Lishu Liu, Michele Maasberg (2013) "Detecting Threatening Insiders with Lightweight Media Forensics," *Proceedings of the 13th annual IEEE Conference on Technologies for Homeland Security*, Boston, Massachusetts, November 12-14, 2013.
12. Young, Diana K., **Nicole Lang Beebe**, Frederick R. Chang (2012) "Prospect Theory and Information Security Investment Decisions," *Proceedings of the Eighteenth Americas Conference on Information Systems (AMCIS)*, Seattle, Washington, August 2012.
13. **Beebe, Nicole Lang**, Sonia Stacy, Dane Stuckey (2009) "Digital Forensic Implications of ZFS," *Proceedings of DFRWS2009, Digital Investigation* (6:S1), pp S99-S107. (Acceptance Rate: 36.59%)
14. **Beebe, Nicole Lang** and V. Srinivasan Rao (2009) "Examination of organizational information security strategy: A pilot study," *Proceedings of the Fifteenth Americas Conference on Information Systems (AMCIS)*, San Francisco, California, August 2009.
15. **Beebe, Nicole Lang** and Jan Guynes Clark (2007) "Digital Forensic Text String Searching: Improving Information Retrieval Effectiveness by Thematically Clustering Search Results," *Proceedings of DFRWS2007, Digital Investigation* (4:S1), pp S49-S54. (Acceptance Rate: 47.22%)
16. **Beebe, Nicole Lang**, and Jan Guynes Clark (2006) "Digital Forensics Curriculum Development: Identification of Knowledge Domains, Learning Objectives, and Core

- Concepts,” *Proceedings of the Twelfth Americas Conference on Information Systems (AMCIS)*, Acapulco, Mexico, August 2006.
17. **Beebe, Nicole Lang** and Jan Guynes Clark (2006) “A Discriminant Model for Predicting Hacker Behavior,” *Proceedings of the Twelfth Americas Conference on Information Systems (AMCIS)*, Acapulco, Mexico, August 2006.
 18. **Beebe, Nicole Lang** and V. Srinivasan Rao (2005) “Using Situational Crime Prevention Theory to Explain the Effectiveness of Information Systems Security,” *Proceedings of the SoftWars Conference*, Las Vegas, Nevada, December 11, 2005.
 19. **Beebe, Nicole Lang** and Diane Walz (2005) “An Empirical Investigation of the Impact of Data Quality and its Antecedents on Data Warehousing Success,” *Proceedings of the Eleventh Americas Conference on Information Systems (AMCIS)*, Omaha, Nebraska, August 2005.
 20. **Beebe, Nicole Lang** and Jan Guynes Clark (2004) “A Hierarchical, Objectives-Based Framework for the Digital Investigations Process,” *Proceedings of DFRWS2004*, Linthicum, Maryland, August 2004 (early version of the paper appearing in *Digital Investigation*).
 21. **Beebe, Nicole Lang**, Roy Calvo, V. Srinivasan Rao (alphabetical ordering) (2004) “Web Services Security: Proposed Model for Content Delivery Assurance in a Low Trust Scenario,” *Proceedings of the Tenth Americas Conference on Information Systems (AMCIS)*, New York, New York, August 2004.
 22. Clark, Jan Guynes, Andrew G. Kotulic, **Nicole Lang Beebe** (2004) “Integrating Security and Privacy Issues in System Design,” *Proceedings of the Sixth International Conference on Enterprise Information Systems*, Porto, Portugal, April 2004.

MANUSCRIPTS UNDER REVIEW

1. Valecha, Rohit, Elaine Tavares, Nicole Lang Beebe, “The Impact of Cultural Differences on Self-Disclosure Behavior on Facebook: A Communication Privacy Management Approach,” submitted to *Journal of the Association of Information Systems (JAIS)* (under first review).
2. Aivazpour, Zahra, Nicole Lang Beebe, “The Impact of Power Imbalance on Cyberbullying: The Role of Bystander Intervention,” *submitted to ICIS 2020* (under first review).

MANUSCRIPTS IN-PROGRESS

Malware

1. “Density Based Outlier Detection of Malware Data” (Williams, Beebe, Ko)
2. “Static Binary Analysis of Import Table Function Calls for Malware Behavioral Classification” (Beebe, Maasberg, Munos, Bole)

Digital Forensics

3. “Analysis of Sampling Rates for Maximum Accuracy and Reliability of Storage Profiles” (Beebe, Maasberg, Hicks)
4. “Not All N-Grams are Created Equal in Data Type Classification” (Beebe, Liu, Ye)
5. “Meta-Analysis of Data/Type Classification Research” (Beebe)
6. “Digital Forensic Stoplists: Windows & Linux operating systems” (Beebe, Carpenter, Knoell)

Insider Threat

7. "Beyond Malicious Intent: An Empirical Study of Insider Cyber Sabotage Based on the Theory of Revenge" (Maasberg, Beebe, Dietrich, Warren, Krasikova)
8. "It's My Nature: Investigating the Influence of Biological Individual Differences on Malicious IT Fraud" (Luse, Maasberg, Beebe)
9. "Understanding Antecedents of Insider Sabotage: A Social and Self - Control Perspective." (Maasberg, Ko, Miller, Beebe, Warren)
10. "A Graph-theoretic Perspective to Combat Insider Threats." (Beebe, Maasberg)
11. "Detection of Hostile Insiders Using Outlier Detection Methods." (Ko, Beebe, Ko)

Behavioral Cybersecurity & Privacy

12. "Trust No More – The Influences of Skepticism in eWOM" (Zhang, Ko, Beebe)
13. "Self-Disclosure Behavior on Facebook: A Comparative Privacy Study of American and Brazilian Users" (Tavares, Beebe, Valecha)

FUNDED GRANTS

1. Principle Investigator, "Cyber Threat Analytic Modeling," \$223,500, Raytheon, 15 August 2019 – 31 July 2020 (Research)
2. Principle Investigator, "Malware Propagation Modeling," \$149,000, LGS Innovations, 15 December 2018 – 30 November 2020 (Research)
3. Co-Investigator, "College Crime Victimization Survey: Examining Traditional and Cybervictimization among College Students at a Hispanic Serving Institution," \$20,000, UTSA Vice President for Research, 1 Sep 2018 – 31 Aug 2019 (Research)
4. Principle Investigator, "IoT Security & Forensics Lab," \$86,010 (\$5K UTSA matching funds), Texas National Security Network, 1 Jun 2018 – 31 May 2019 (Research)
5. Principle Investigator, "Insider Threat Detection Research Initiative – Risk-based Document Profiling and Anomaly Detection," \$75,000, Forcepoint, LLC 15 Sep 2017 – 31 Dec 2018 (Research)
6. Co-Principal Investigator, "CREST Center for Security and Privacy Enhanced Cloud Computing," \$5,000,000, National Science Foundation, 1 Sep 2017 – 31 Aug 2022 (Research & Education)
7. Co-Principal Investigator, "CyberCorps Scholarship for Service," \$3,737,836, National Science Foundation, 1 Oct 2016 – 30 Sep 2021 (Education)
8. Principle Investigator, "Lightweight Media Forensics for Insider Threat Detection Follow-On," \$649,172 contract award from the Department of Homeland Security, 1 Jul 2016 – 30 Dec 2018 (Research)
9. Co-Investigator, "Analysis and Training for the Defense of Biological and Digital Threats," \$895,237 grant award from the Department of Homeland Security, 30 Sep 2014 – 30 Sep 2020 (Research & Education)
10. Principal Investigator, "Vector: Insider Threat Identification," \$123,871 contract sub-award from Def-Logix, Inc., part of \$1.649M award from the DoD Information Systems Agency, 29 Sep 2014 – 29 Jun 2016 (Research)
11. Principle Investigator, "Relevancy Rank Algorithm for Digital Forensic String Search Output," \$10,000 grant award from UTSA Technology Proof-of-Principle (Tech POP) program, 1 Sep 2014 – 31 Aug 2015 (Research)
12. Principal Investigator, "Detecting Threatening Insiders with Lightweight Media Forensics," \$371,170 grant sub-award from cooperative agreement #N00244-13-2-004 with Naval Postgraduate School, under \$1.4M award from Department of Homeland Security (DHS) BAA-11-02, 15 Apr 2013 – 30 Sep 2014 (Research)

13. Principal Investigator, "Advanced Research in Data Type Classification," \$205,197 grant award #N00244-13-1-0027 under Naval Postgraduate School BAA-12-004, 1 Mar 2013 – 30 Sep 2014 (Research)
14. Principal Investigator, "Advanced Digital Forensics String Search Capability," \$279,311 grant award #N00244-11-1-0011 under Naval Postgraduate School BAA-09-003, 21 Dec 2010 – 31 May 2013 (Research)

INVITED LECTURES & PRESENTATIONS

1. "Finding Funding and Research Opportunities," CREWE (Cyber Research for Empowering Women Experimenters), Google sponsored workshop at Louisiana Technical University, February 25, 2020
2. "Women in Artificial Intelligence (panelist)," SA Women in Machine Learning & Data Science, Trinity University, August 28, 2019
3. "Cyber Center: Accelerating our National Cybersecurity Strategy (panelist)," Accenture, San Antonio, April 17, 2019.
4. "Cybersecurity – Academic Excellence and R&D (panelist)," The Philosophical Society of Texas, February 3, 2018.
5. "Lightweight Media Forensics for Insider Threat Detection," 2017 Cyber Security R&D Showcase & Technical Workshop, US. Department of Homeland Security, July 12, 2017.
6. "Statistics Meets Digital Forensics to Detect Insider Threats," The 4th Annual Michigan State University Interdisciplinary Conference on Cybercrime, March 2, 2017.
7. "Cyber Hunting," Keynote Address, U.S. Chamber of Commerce 5th Annual Cybersecurity Summit, June 28, 2016.
8. "Advancements in Computational Digital Forensics," The HoneyNet Project annual conference, May 11, 2016.
9. "A Look at the Current Cyber Threat Landscape (and how it can affect the food industry)," Food Protection and Defense Institute, Food Protection Webinar Series, April 1, 2016.
10. "Digital Forensics In and Of the Cloud: Challenges and Issues" Texas FreshAIR Big Data & Data Analytics Conference, March 30, 2016.
11. "Emerging Techniques in Digital Forensics: Insiders, Malware, and Tools," 2015 CAATs Conference: Insight & Impact—Using Technology to Look Deeper and Work Smarter," U.S. Department of Housing and Urban Development, Office of the Inspector General, September 2, 2015
12. "Advancements in Computational Digital Forensics," USAA TechX2015, April 30, 2015.
13. "SCEADAN: Systematic Classification Engine for Advanced Data ANALysis," Open Source Digital Forensics Conference (OSDFCON), November 5, 2014
14. "Discovering the Digital Footprints You Leave Behind (and implications for managers)," Alamo Chapter of Credit Unions, Monthly Meeting, November 21, 2013
15. "SIFTER: Search Indexes For Text Evidence Relevantly," Open Source Digital Forensics Conference (OSDFCON), November 5, 2013
16. "Big Data Forensics," USAA TechX2013, October 24, 2013
17. "Your Business and the Digital Paradigm: Digital Forensics Readiness & Response," North San Antonio Chamber of Commerce, "On the Horizon" speaker series, Oct 23, 2013
18. "Digital Forensics: Detecting Threatening Insiders," BITS (The Technology Policy Division of the Financial Services Roundtable) Research & Development Special Interest Group, June 7, 2013
19. "Digital Forensic Implications of Windows 7," Information Systems Security Association (ISSA), Alamo Chapter Meeting, November 15, 2011
20. "Evidence Challenges Created by Windows 7," 1st Annual Legal Technology Leadership Summit, Amelia Island, FL, September 8, 2011

21. "A Call for More Analytically Advanced String Search Approaches in Digital Forensics," 2nd Annual Northeast Forensics Exchange (NeFX), Washington D.C., September 13, 2010
22. "Digital Forensics of Windows 7," Risk & Security Summit, Sponsored by Ernst & Young and The University of Texas at San Antonio, February 8, 2010
23. "Great Debate Series: Cyber Security," Public Debate Sponsored by the Texas Lyceum, San Antonio, Texas, February 5, 2010
24. "Digital Forensic Implications of ZFS," DFRWS2009, August 18, 2009
25. "Examination of Organizational Information Security: A Pilot Study," Fifteenth Americas Conference on Information Systems, San Francisco, California, August 8, 2009
26. "Digital Forensics Research: The Good, the Bad, and the Unaddressed," Keynote Address, Fifth Annual IFIP WG 11.9 International Conference on Digital Forensics, Orlando, FL, Jan 27, 2009
27. "Discovering the Digital Footprints You Leave Behind," UTSA Lecture Series for National Cyber Security Awareness Month, October 23, 2008
28. "Frontiers in Science & Technology – A Digital Forensics Demonstration" for the UTSA Honors College Technology Conference, September 19, 2008
29. "Discovering the Digital Footprints You Leave Behind," UTSA Lecture Series for National Cyber Security Awareness Month, October 16, 2007
30. "Digital Forensic Text String Searching: Improving Information Retrieval Effectiveness by Thematically Clustering Search Results," DFRWS'07, August 13, 2007
31. "A Primer and Update on Digital Evidence" (workshop co-presenter), 59th Annual Meeting of the American Academy of Forensic Sciences, February 19, 2007
32. "A New Process Model for Text String Searching," Third Annual IFIP WG 11.9 International Conference on Digital Forensics, January 30, 2007
33. "Data Mining and Digital Forensics," Florida Dept. of Law Enforcement, March 31, 2006
34. "Using Situational Crime Prevention Theory to Explain the Effectiveness of Information Systems Security," SoftWars Conference, December 11, 2005
35. "CISSP Preparation Course: Law, Investigations, and Ethics," Information Systems Security Association (ISS), Alamo Chapter, November 12, 2005
36. "Approaching the Terabyte Dataset in Digital Investigations" (modified), Digital Forensics Working Group (DFWG) Technology Transfer Workshop, June 9, 2005
37. "Cell Phone Forensics," Computer Crime Investigators Working Group, March 23, 2005
38. "Approaching the Terabyte Dataset in Digital Investigations," First Annual IFIP WG 11.9 International Conference on Digital Forensics, February 14, 2005
39. "CISSP Preparation Course: Law, Investigations, and Ethics," Information Systems Security Association (ISSA), Alamo Chapter, November 13, 2004
40. "Advanced Digital Forensic Analysis: Metadata," Digital Forensics Seminar for Law Enforcement, University of Texas at San Antonio, August 19, 2004
41. "A Hierarchical, Objectives-Based Framework for the Digital Investigations Process," Digital Forensics Research Workshop (DFRWS) 2004, Linthicum, MD, August 11, 2004
42. "Ethical Decision Making in an IT Environment – Preliminary Results," Information Systems Security Association (ISSA), Alamo Chapter, March 16, 2004
43. "CISSP Preparation Course: Security Management Practices," Information Systems Security Association (ISSA), Alamo Chapter, September 20, 2003
44. "CISSP Preparation Course: Law, Investigations, and Ethics," Information Systems Security Association (ISSA), Alamo Chapter, September 20, 2003
45. "Solving Cyber Crimes with Federal Law Enforcement," Texas Security Symposium, Center for Infrastructure Assurance and Security, San Antonio, August 8, 2003
46. "Digital Forensics," Information Systems Security Association (ISSA), Alamo Chapter, Workshop, February 7, 2003

47. "Computer Forensics Policy," Information Systems Security Association (ISSA), Alamo Chapter, Membership Meeting, January 21, 2003
48. "Computer Forensics – The Business Case," Information Systems Security Association (ISSA), Alamo Chapter, Membership Meeting, August 21, 2003
49. "CISSP Preparation Course: Law, Investigations, and Ethics," Information Systems Security Association (ISSA), Alamo Chapter, October 8, 2002
50. "Securing Wireless Technology," Information Systems Security Association (ISSA) Alamo Chapter, Annual Symposium, May 03, 2002
51. "Computer Forensics – The Business Case," ASIS International, San Antonio Chapter, Membership Meeting, April 2, 2002
52. "Cyber Forensics," Information Systems Security Association, (ISSA) Alamo Chapter Annual Symposium, May 21, 2001

SPECIAL AWARDS & HONORS

- Endowed 1969 Commemorative Award for Overall Faculty Excellence, 2019 (UTSA College of Business)
- UTSA Nominee for Regents' Outstanding Teaching Award, 2015
- UTSA College of Business Teaching Honor Roll, High Honors, Fall 2014
- UTSA Nominee for Minnie Stevens Piper Teaching Award, 2014
- DFRWS International Digital Forensics Challenge, 1st Place, 2012
- HEB Dissertation Fellowship, 2007
- University of Texas at San Antonio Fellowship, 2003-2007
- Top Graduate, 1997, Georgia State Univ., College of Health & Human Sciences
- Distinguished Graduate, 1995, Michigan Technological University, Air Force ROTC
- President's Award, 1995, Michigan Technological University
- Miscellaneous military awards and decorations (1995-Present)