

# RANDALL J. BOYLE

Dept. of Management, Marketing, & IS  
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## EDUCATION

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Ph.D., 2003, Management of Information Systems, Florida State University, Tallahassee, FL.

Dissertation: Dispersed Deception: An examination of the impacts of computer mediation, proximity, and familiarity on truth bias

Master's in Public Administration, 2000, Brigham Young University, Provo, UT.

Dean's List, GPA 3.89 of 4.00

B.S. Business Finance, 1998, Brigham Young University, Provo, UT.

A.A. General Education, 1996, Weber State University, Ogden, UT.

## RESEARCH ACTIVITIES

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### REFEREED PUBLICATIONS

1. Boyle, R., C. Kacmar, J. George (2010) Electronic Deception: How Proximity, Computer-mediation, and the Truth Bias may Influence Deceptive Messages. In *Interdisciplinary Perspectives on E-Collaboration: Emerging Trends and Applications*. Hershey: IGI Global (ISBN-13: 978-1615206766).
2. Boyle, R., C. Kacmar, J. George (2009) Distributed Deception: An Investigation of the Effectiveness of Deceptive Communication in a Computer-mediated Environment. In P. Zaphiris & C. S. Ang (Eds.), *Human Computer Interaction: Concepts, Methodologies, Tools, and Applications (1970-1994)*. Hershey: IGI Global.
3. Boyle, R., C. Kacmar, J. George (2008) Distributed Deception: An Investigation of the Effectiveness of Deceptive Communication in a Computer-mediated Environment. *International Journal of E-Collaboration* 4(3): 14-39. (Paper of the Year)
4. Boyle, R., Ruppel, C. (2006). On-line Purchasing Intent: The Effect of Personal Innovativeness, Perceived Risk, and Computer Self-Efficacy. *Journal of International Technology and Information Management* 15(2): 61-74.
5. Thatcher, J. B., Lee P. Stepina, Randall J. Boyle (2003). Turnover of Information Technology Workers: Examining Empirically the Influence of Attitudes, Job Characteristics, and External Markets. *Journal of Management Information Systems* 19(3): 231-261.

### REFEREED CONFERENCE PAPERS

1. Proudfoot, J., Boyle, R., Clements, J., (2013). Mitigating Threats to Collaboration and CMC: Identifying Antecedents of Online Deviance. Hawaii International Conference on System Sciences, Waikoloa, HI.
2. Boyle, R., Clements, J., Proudfoot, J., (2012). Predicting Deceptive Behavior: Exploring antecedents to deceptive behaviors. National Communication Association 98<sup>th</sup> Annual Conference, Orlando, FL.
3. Boyle, R., Ruppel, C., (2005). The Impact of Media Richness, Suspicion, and Truth Bias on Deception Detection. Hawaii International Conference on System Sciences, Waikoloa, HI.

4. Boyle, R., Ruppel, C., (2004). On-line Purchasing Intent: The Effect of Personal Innovativeness, Perceived Risk, and Computer Self-Efficacy. In the Proceedings of the Annual Meeting of the Southern Association for Information Systems, Savannah, GA.
5. Boyle, R., DeWitt, T., (2002). Trust: How M.A.N. Influences Online Transactions. In the Proceedings of the American Marketing Association Winter 2002 Educators Conference, Austin, TX.
6. Boyle, R., Thatcher, J., (2001). Organizational Commitment and IT workers: A Conceptual Model. In the Proceedings of the Annual Meeting of the Southern Association for Information Systems, Savannah, GA.

## **CURRENT RESEARCH PAPERS**

1. Boyle, R., Clements, J., and Proudfoot, J., (2013). Predicting Deceptive Behavior: Exploring antecedents to deceptive behaviors (Targeted for Human Communication Research).
2. Clements, J., Boyle, R., Proudfoot, J., and Bush, A., (2013). Successful Deception: The role of political skill (Targeted for Journal of Management Research).
3. Proudfoot, J., Boyle, R., and Clements, J., (2013). Online Anti-Social Behaviors: An examination of contributing factors to cyber bullying (Targeted for Information Systems Research.)
4. Clements, J., Boyle, R., (2013) Always Online: A look at habitual IS use and individual online purchasing intent.
5. Boyle, R., (2013). Cross Pollination: The effects of cross-site user accounts on account security. (Targeting ISR)
6. Boyle, R., (2014). Adaptive Mangling Rules: A comparison of password sources, structures, and strength. (Targeting IEEE Transactions)

## **BOOKS**

1. Boyle, R., Panko, R., (2014) *Corporate Computer Security* (4<sup>th</sup> edition). New Jersey: Pearson. (ISBN: 978-0133545197).
2. Boyle, R., Proudfoot, J., (2014). *Applied Information Security Labs: A Hands-on Approach* (2<sup>nd</sup> edition). New Jersey: Pearson. (ISBN: 978-0133547436).
3. Boyle, R., Clements, J., (2014). *Applied Networking Labs: A Hands-on Guide to Networking and Server Management* (2<sup>nd</sup> edition). New Jersey: Pearson. (ISBN: 978-0133545180).
4. Boyle, R., Panko, R., (2012) *Corporate Computer Security* (3<sup>rd</sup> edition). New Jersey: Pearson (ISBN: 0132145359).
5. Boyle, R., (2012). *Applied Networking Labs: A Hands-on Guide to Networking and Server Management* (计算机网络实验手册, far Hongliang, Trans.). Beijing, China: Tsinghua University Press (Original work published 2011). (ISBN: 9787302267560).
6. Boyle, R., (2011). *Applied Networking Labs: A Hands-on Guide to Networking and Server Management*. New Jersey: Pearson. (ISBN: 0132310341).
7. Boyle, R., (2010). *Applied Computer Security: A Hands-on Approach*. New Jersey: Pearson. (ISBN: 0136122035).

## **BOOKS IN PROCESS**

1. Boyle, R. (2015). *Applied E-Commerce and Web Applications*. (In progress).
2. Boyle, R., (2016). *Penetration Testing and Network Defense*. (In progress).

## **OTHER REVIEWED PUBLICATIONS**

1. Boyle, R., (2013, Spring). A New Way to Steal. *Longwood Magazine*, pp. 48.
2. Boyle, R., Panko, R., (2012). Instructor's manual, study guide, slide deck, and test bank for *Corporate Computer Security* (3<sup>rd</sup> edition). New Jersey: Pearson.
3. Boyle, R., Panko, R., (2014). Instructor's manual, study guide, slide deck, and test bank for *Corporate Computer Security* (4<sup>rd</sup> edition). New Jersey: Pearson.

## **ACADEMIC ACTIVITIES**

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### **DIRECTED MASTERS PROJECTS**

1. Enterprise Surveillance Implementation (2012)
2. Enterprise Microsoft SharePoint Implementation (2011)
3. Proprietary IDS Implementation (2011)
4. Border Management and Proxies (2011)
5. Green Grid Computing (2010)
6. Anti-Fraud Systems (2010)

### **CURRENT ACADEMIC PROJECTS**

1. Managed a summer IT internship program between Longwood University and Carnegie Mellon University's ITLAB. Longwood students were able to secure 4/20 seats in the national program. All students were offered room, board, tuition, airfare, a stipend (\$3,500), and a minimum of ½ tuition scholarship toward their Masters of Science in Information Systems degree at Carnegie Mellon University. Total financial benefits to these four students exceeded \$250,000.
2. Designed, created, configured, and managed a cloud-based virtualized computing environment for Cyber Security training. Deployed a multi-OS training environment including Microsoft Windows 7, Microsoft Windows 8, Microsoft Server 2008, Microsoft Server 2012, Ubuntu, Mint, Fedora, OpenSUSE, BackTrack, and CentOS. Deployed hundreds of secure virtual machines for university and academic use. Configured virtual networks, internal and external firewalls, intrusion detection systems, UPS, NAS, application filtering, and inline antivirus scanning.
3. Coordinated, developed, and managed MSIS Orientation for inaugural class.
4. Launched new masters program (Master of Science in Information Systems) with 50+ students in the inaugural class. Developed and managed MSIS program.
5. Pre-employment screening to improve fraud prevention. Developed custom pre-employment measures and analytical models to improve hiring process (2009).
6. Omniture Web Analytics Competition (2009, 2010). Initiated, coordinated, and managed the inaugural OWAC event at the University of Utah.
7. Worked to establish a Master of Information Systems (MSIS) degree program at the University of Utah. Designed all courses and content in the Security track including IT Forensics and Network Defense. Completed Fall 2007.
8. Established the MSDN Academic Alliance (MSDNAA) program at the U. of Utah. Students are able to get Microsoft developer tools (Server2003, Vista, XP Pro, Visual Studio,) for free. Completed Spring 2007.
9. Telecommunications/Security Lab. Planned Spring 2004 and completed Summer 2004. Provides 1) hands-on training for all core Microsoft Certified Systems Engineer (MCSE) exams 2) complex network simulations (OPNET), 3) Linux tutorials, and 4) 34 hands-on security exercises.

10. Grid Computing Implementation. Planned Summer 2004 and completed Fall 2004. Provides high capacity computing power to solve complex research problems put forth by UAH researchers.
11. Develop Graduate Information Assurance Certificate program at UAH. Planned Summer 2004, Completed Fall 2004.

## **TEACHING EXPERIENCE**

1. Decision Support Systems, ISM4117, FSU (SU 2001, SU 2002) (new prep).
2. Information Systems Analysis and Design, ISM4030, FSU (FA 2002) (new prep).
3. Networking and Telecommunications, ISM4220, FSU (SP 2003) (new prep).
4. Networking and Telecommunications, MIS460/MIS560, UAH (FA 2003, SP 2004, FA 2004, SP 2005).
5. Web Servers, MIS465/MIS565, UAH (FA 2003) (new prep).
6. Network Security, MIS660, UAH (SP 2004, SP 2005) (new prep).
7. Information Systems in Organizations, MIS301, UAH (FA 2004, SP 2005).
8. Introduction to Information Systems, IS4410, U. of Utah (FA 2005, SP 2006, FA 2006, SP 2007, FA 2007, SP 2008, FA 2008, SP 2009, FA 2009, FA 2010, SP 2011).
9. IT Security, IS4470, U. of Utah (SP 2006, FA 2006, SP 2007, FA 2007, SP 2008, FA 2008, SP 2009, FA 2009, SP 2010, FA 2010, SP 2011).
10. Advanced IT Security, IS5910, U. of Utah (SP 2007).
11. Computer Security, ACCTG6520, U. of Utah (SP 2007, SP 2008, FA 2008).
12. Networks & Servers, IS4440, U. of Utah (FA 2008, SP 2009, FA 2009, SP 2010, FA 2010, SP 2011).
13. IT Security, IS6570, U. of Utah (FA 2009, SP 2010, FA 2010, SP 2011).
14. Principles of IS, ISYS 370, Longwood University (FA 2012, SP 2013, FA 2013, SP 2014).
15. Cyber Security, ISYS 376, Longwood University (FA 2012, FA 2013, SP 2014).
16. Adv. Cyber Security, ISYS476, Longwood University (FA 2012(new prep), FA 2013).
17. Network Communications, ISYS473, Longwood University (SP 2013, SP 2014).
18. Information Systems Internship, ISYS492, Longwood University (SU 2013).

## **ACADEMIC HONORS**

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### **GRANTS**

1. David Eccles School of Business Research Grant, University of Utah (2010).
2. Teaching grant for IT infrastructure to support core IS courses (IS4440, IS4470, and IS4415) (\$50,000) (2009).
3. David Eccles School of Business Research Grant, University of Utah (2009).
4. David Eccles School of Business Research Grant, University of Utah (2008).
5. David Eccles School of Business Research Grant, University of Utah (2007).
6. CMER Research Grant, University of Alabama in Huntsville (2004).
7. Dissertation Research Grant, Florida State University (2003).

### **TEACHING AWARDS**

1. Delta Sigma Pi Teaching Award, Longwood University, (2013).
2. Distinguished Teaching Award, College of Business & Economics, Longwood University, \$1,500 prize award (2013).
3. Pi Beta Phi Teacher Appreciation Award, University of Utah (2011), university-wide.
4. Sigma Chi Distinguished Teaching Award, University of Utah (2011), university-wide.

5. David Eccles School of Business MSIS Influential Teacher Award (2011).
6. David Eccles School of Business MSIS Teaching Award, University of Utah (2010).
7. David Eccles School of Business MSIS Faculty Excellence Award, University of Utah (2010).
8. LDSSA Excellence in Education Award, University of Utah (2009), university-wide.
9. Marvin J. Ashton Teaching Excellence Award, University of Utah, \$5,000 prize award (2008).
10. Undergraduate Teaching Award, University of Alabama in Huntsville (2005).
11. Nominated for Graduate Teaching Award, University of Alabama in Huntsville (2005).
12. Nominated for Undergraduate Teaching Award, University of Alabama in Huntsville (2004).
13. Nominated for Doctoral Student Teaching Award, Florida State University (2003).

## **ASSISTANTSHIPS AND SCHOLARSHIPS**

1. Management of Information Systems Teaching Assistantship, Florida State University (2000-2001).
2. Management of Information Systems Research Assistantship, Florida State University (2001-2002).
3. Public Administration Teaching Assistantship, Brigham Young University (1999-2000).
4. Public Administration Student Scholarship, Brigham Young University (1998-2000).
5. Academic Scholarship Brigham Young University (1996-1998).
6. Academic Scholarship Weber State University (1995-1996).

## **FELLOWSHIPS**

1. College of Business Fellowship, Florida State University (2000-2003).

## **SERVICE**

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### **PROFESSIONAL SERVICE**

1. Board member, Commonwealth Center for Advanced Logistics Systems (CCALS) Technical Advisory Council, (2013- current).
2. Reviewer, Pearson Higher Ed., (2011).
3. Reviewer, Pearson Higher Ed., (2010).
4. Reviewer, Information Systems Research (ISR) (2009).
5. Reviewer, International Conference on Information Systems (ICIS) (2008).
6. Reviewer, International Conference on Information Systems (ICIS) (2007).
7. Session Chair, 2006 Winter Conference on Business Intelligence (2006).
8. Reviewer, International Conference on Information Systems (ICIS) (2006).
9. Reviewer, Small Group Research (2006).
10. Reviewer, American Marketing Association Conference (2004).
11. Reviewer, Southern Association for Information Systems (2003).
12. Reviewer, Hawaii International Conference on System Sciences (2001).
13. Volunteer, International Conference on Information Systems (ICIS), New Orleans, Louisiana (2001).
14. Reviewer, Group 2001, the ACM 2001 International Conference on Supporting Group Work (2000-2001).

### **UNIVERSITY SERVICE**

1. MBA Curriculum Committee (2012-current).
2. LMS Technology Advisory Committee, Longwood University (2012-current).
3. Online Advisory Committee, Longwood University (2012-current).

4. Student Environment Committee, Longwood University (2012-current).
5. Faculty Search Committee, COBE, committee member, (2013-current).
6. Undergraduate Curriculum Committee, DESB, committee member (2011-2012).
7. Coordinator MSDNAA program DESB (2007-2012).
8. MSIS Contribution Award (2010).
9. Director of Master of Science in Information Systems (MSIS) program, (2008-2010).
10. Faculty Advisor to Tau Epsilon Kappa (TEK) student group (2007-2011)
11. Master of IS Committee, committee member (2007-2011).
12. Coordinator Omniture Competition (2009-2010)
13. Undergraduate IS Advisor, University of Utah (2007-2009).
14. Department Faculty Evaluation and Promotion Committee, University of Alabama in Huntsville, committee member (2004-2005).
15. Department Undergraduate Curriculum Committee, University of Alabama in Huntsville, committee member (2004-2005).
16. Computer Network Services Advisory Committee, University of Alabama in Huntsville, committee member (2003-2005).
17. Information Assurance Committee, University of Alabama in Huntsville, committee member (2003-2005).
18. Undergraduate Curriculum Committee, College of Administrative Science, committee member (2003-2004).

## **COMPUTER EXPERTISE**

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### **CERTIFICATIONS**

1. MCP, MCSE, MCSE+I.
2. Implementing and Supporting Windows NT Workstation 4.0 (70-073).
3. Implementing and Supporting Windows NT Server 4.0 (70-076).
4. Implementing and Supporting Windows NT Server 4.0 in the Enterprise (70-068).
5. Networking Essentials (70-058).
6. Internetworking Microsoft TCP/IP on Microsoft Windows NT 4.0 (70-059).
7. Internet Information Server (70-087).

### **SECURITY**

- Threat Severity Analysis, Risk Analysis
- Information Assurance
- Incident Response and Disaster Recovery
- Firewall design and implementation
- Cryptographic theory and systems
- Malware management
- Application layer security
- Wireless security & Implementation
- Spam Prevention
- Alternate Data Streams
- Mobile Forensics
- Password crackers
- Packet sniffers
- Intrusion Detection Systems
- Intrusion Prevention Systems
- Steganography
- Network and host scanners
- File/Data Recovery
- Forensic data analysis
- Application layer filters
- Penetration testing
- Security appliances

## SYSTEMS

- Virtual Machines (Hyper-V, VMWare ESX, Virtual Box, VMWare Workstation/Player)
- Linux: Mint, Ubuntu, Debian, Fedora, etc. FreeBSD & Unix
- Apache Web Server, LAMP, WAMP, etc.
- Windows Server NT, 2003, 2008, 2012
- Active Directory, Exchange, SharePoint
- Internet Information Server (IIS)
- OPNET, network modeling, design, and testing

## CODING

- Visual Basic, HTML, CSS, ASP, PHP.

## DATABASE

- Microsoft SQL Server, MySQL, Microsoft Access, PowerBuilder, Oracle.

## WORK EXPERIENCE

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### PROFESSIONAL PRESENTATIONS

1. Deceptive Communication, Faculty-in-Residence, Longwood University, October 23, 2013.
2. Panel, Skill-based Education, Faculty-in-Residence, Longwood University, March 21, 2013.
3. Careers in Information Systems and Security, FBLA, Longwood University, March 14, 2013.
4. Tech Investment Strategies, Student Investment Fund, Longwood University, February, 19, 2013.
5. Panel, Cyber Security Challenges, Longwood University, October, 8 2012.
6. Network Forensic Analysis. Presented to Longwood University, VA (2012).
7. Predicting Deceptive Behaviors. Presented to Suffolk University, MA (2012).
8. Attack Methodology. Presented to Society of Former Special Agents of the Federal Bureau of Investigation (FBI) (2011).
9. Threat Severity Analysis. Televised presentation to Salt Lake City Corporation. (2006).
10. National Security Trends. Presented to the University of Utah Information Systems Advisory Board at the University of Utah (2005).

### PROFESSIONAL EXPERIENCE

1. Associate Professor, Longwood University. (2012).
2. Full Professor (lecturer), University of Utah. (2010).
3. Director MSIS Program, University of Utah. Full Responsibility for directing MSIS program and teaching 7 core IS courses annually (2008 - 2010).
4. Associate Professor (lecturer), University of Utah. (2009).
5. Assistant Professor (lecturer), University of Utah. (2007 - 2009).
6. Visiting Professor, University of Utah. Full responsibility for 6 core IS courses annually (2005 - 2007).
7. Assistant Professor, University of Alabama in Huntsville. Full responsibility for 6 core IS courses (2003-2005).
8. Instructor, Florida State University. Full responsibility for core information systems classes for MIS majors. (2000-2003).
9. Teaching Assistant, Brigham Young University. Conducted Accounting lab sessions, taught weekly Accounting review classes, and graded papers (1999-2000).
10. Manager, Boyle Appliance Center, Ogden, Utah. Managed warehouse and delivery personnel, trained new delivery and office personnel, and managed computer systems. (1985-1999).

## NEWS MEDIA

1. Boyle, R. (2013, June 3). Charlottesville, VA, Detecting deception [interview]. Radio interview on WVTF with Sandra Hausman.
2. Interview, Large Scale Data breaches, ABC4 News, April 12, 2012.
3. LU Professor Co-Authors Deception Study, Farmville Herald, June 12, 2013.
4. Four Longwood University College of Business and Economics Students Selected to Attend Carnegie Mellon's ITLAB: Junior Summer Internship. PRWeb, April 30, 2013.
5. Study by Longwood professor predicts a person's willingness to lie, Longwood University press release, April 30, 2013.
6. Four Longwood business students chosen for Carnegie Mellon internship, Longwood University press release, May 1, 2013.