

Daniel C. Phelps

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Education

Ph.D. Information Studies, Florida State University, 2005.

M.Ed. Measurement, Evaluation, Statistics, and Assessment, Department of Educational Psychology, University of Illinois at Chicago, (in progress)

PgDipl. Information Systems and Operations (Curr. 271), Naval Postgraduate School, 2010

M.S. Computer Science, James Madison University, 2008.

M.S. Information Studies, Florida State University, 1998.

B.A. Spanish, Florida State University, 1997.

Certifications

Information Systems Security (INFOSEC) Professional (NSTISSI No. 4011)

Information Systems Security Officer (CNSSI No. 4014)

Certified Information Systems Auditor (#1299188)

Academic Experience

Carnegie Mellon University in Qatar, Information Systems Department

Associate Teaching Professor, July 2015 - Present.

Director, Qatar Information Systems Program, February 2015 - Present.

Assistant Teaching Professor, October 2009–August 2015.

Adjunct Assistant Teaching Professor, January 2008–October 2009.

Florida State University - Panama City, College of Information

Associate (Teaching Professor), August 2005 - December 2006.

Assistant (Teaching Professor), August 2002 - August 2005.

Florida State University

Academic and Pre-Law Advisor, August 1999 - August 2002.

Teaching Assistant, August 1998 - August 2002.

Graduate/Computer Lab Assistant, August 1998 - August 1999.

Professional Experience

ISR Assessments, U.S. Navy, June 2013 - May 2014

Responsible for the development, implementation, use, and improvement of a comprehensive intelligence, surveillance, and reconnaissance (ISR) assessment program focusing on measures of performance and effectiveness of airborne ISR assets. This included the development, pre-testing, pilot testing, and final implementation of collection instruments, the identification and refinement of data collection processes, and the analysis and dissemination of the collected data. Development, implementation, and analysis was done with R, Sharepoint, and VBA for applications.

Information Scientist, Q-CERT, October 2007 - October 2009

Involved in research, management, and consulting in the establishment of a model computer security incident response capability for the nation of Qatar and the Gulf Cooperation Council. This includes the establishment of metrics for broadly quantifying information security at the nation/state level, consulting with defined critical infrastructure organizations to help them establish and maintain an information security program, providing both technical and management training in the area of information security, and assisting with general outreach initiatives throughout Qatar, the GCC, and MENA.

Member of the Technical Staff, Software Engineering Institute, January 2007 - October 2009

Involved in research related to information system security through the Survivable Enterprise Management group of CERT. Specifically responsible for research with the Insider Threat Team that included investigating and applying theories established from the broad academic literature to ongoing research initiatives.

Primary Researcher, Information Technology Process Institute, August 2005 - October 2007

Research lead on the IT Controls Benchmarking Survey, a survey and benchmark of current IT control practices that examines the nature of the relationship between IT controls, such as those described in ITIL and COBIT, and operational metrics related to access, operations, and security.

Scholarly Activity

Working Papers

Phelps, D.C. (2014).

An Evaluation of Workman's Model of Psychological Motives for Corporate Harassment Differentiated by Construal of Self.

Phelps, D.C. (2014).

Hactivism: Perceived Injustice, Group Efficacy, and Action Tendencies.

Phelps, D.C. (2015).

Effects of Incorporating an Instructional Lab on Computer Self-Efficacy.

Publications - Monographs

Workman, M., Phelps, D., Gathegi, J. (2012). Information Security for Managers. Sudbury, MA: Jones and Bartlett. ISBN13: 9780763793012

Workman, M., Phelps, D., & Workman, J. (2006). Management of Infosec and a Guide to the Center for Immigration and National Security CINSecL1. Atlanta, GA: CINS Publications, eAselworx Press. ISBN: 0964957590

Publications - Journals and Whitepapers

- Phelps, D.C. (2015) Information System Security for the Psychologist: An Introduction to the Field. Call Signs Vol 5(2).
- Workman, M., Phelps, D.C. & Hare, R.C. (2013) A Study of Performative Hactivist Subcultures and Threats to Businesses, *Information Security Journal: A Global Perspective*, 22:4, 187-200
- Phelps, D., Gathegi, J., Workman, M., Heo, M. (2012). Information System Security: Self-Efficacy and Implementation Effectiveness. *Journal of Information System Security*. Vol 8(1).
- Milne, Kurt; Phelps, Dan. (Dec 2008). IT Controls: Good for Operations. *The Internal Auditor* 65:6 pg. 80.
- Milne, K. and Phelps, D. (2008). Leveraging IT Controls To Improve IT Operating Performance. Institute of Internal Auditors Research Foundation.
- Cappelli, D.M., Moore, A.P., Phelps, D., Shaw, E.D., & Trzeciak, R.F. (2007). Research methodology for the CERT insider threat project: Modeling human behavior in cyberspace (FOUO). Pittsburgh, PA: CERT Program, Survivable Enterprise Management, Carnegie Mellon University.
- Milne, K. & Phelps, D., ITPI Research Report: IT Controls Performance Study. Information Technology Process Institute, June 2007.
- Phelps, D., Kim, G., & Milne, K. (2006). Initial Findings from the IT Controls Benchmarking Study. Information Technology Process Institute, WhitePaper Series, February 2006

Conference Presentations and Symposia

- Liginlal, D., Phelps, D., Lansine, K. "Tracking the Socio-Technical Barriers to Digital Identity Adoption in Arab Countries A Case Study of Qatar." 9th International Conference on E-Governance (ICEG-2012), Cochin, Kerala, India, 29-30 December 2012.
- Phelps, D. "Hactivism: Perceived Injustice, Group Efficacy, and Action Tendencies." 6th INTERPOL's Group meeting MENA Region, Doha, Qatar, 20 March 2012
- Phelps, D. "Hactivism: Perceived Injustice, Group Efficacy, and Action Tendencies." QCERT - QIT-COM, Doha, Qatar, 6 March 2012
- Phelps, D. "A Process Approach to Security." Air Force Cyber Scientific Advisory Board, Boston, MA, 9 May 2007.
- Phelps, D. and Kim, G., "Phase Two of the IT Controls Benchmarking Survey." IT Service Management Forum Conference, Salt Lake City, UT, 18 -21 September 2006.
- Phelps, D. and Gathegi, J., "Information Security Self-Efficacy." Americas Conference on Information Systems (AMCIS), Mini Track: Socio-technical dimensions in IS Security, Acapulco, Mexico, 4 -6 August 2006.
- Phelps, D. and Kim, G., "ITIL: Whats change got to do with it?" Information Systems Audit and Control Association (ISACA) 2006 International Conference, Adelaide, Australia, 31 July - 2 August 2006.
- Phelps, D., "Change Control The Relationship Between IT Controls and Operational Measures." Securities Industry Association Technology Management Conference, New York, NY, 22 June 2006.
- Phelps, D. and Milne, K., "Understanding the Audit, Operations, and Security Performance Impact of IT Control Activities." Institute of Internal Auditors IT Audit Research Symposium, Austin, TX, 18 June 2006.
- Phelps, D., "IT Change Control: The Greatest Differentiator Between Good and Great." IT Service Management Forum Conference, Minneapolis, MN, 17 May 2006
- Phelps, D. and Kim, G., "The Pareto Principle of IT Controls." IT Service Management Forum Conference, Cincinnati, OH, 27 April 2006.

Phelps, D. and Kim, G., "Prioritizing Processes and Controls for Effective and Measurable Security." Nebraska INFRAGUARD Security Metrics Workshop, Omaha, NE, 13 April 2006.

Senior Thesis Advisor

Marwa AlFakhri, 2012 - 2013
"The Effect of Displaying Privacy Information on The Arab Culture"
Fatema Akbar, 2012 - 2013
"What affects students acceptance and use of technology?"
Shashank Jariwala, 2010
Incomplete

Courses Taught

Carnegie Mellon University - Qatar

67-272 - Application Design and Development
67-273 - Application Design and Development I
67-274 - Application Design and Development II
67-102 - Concepts of Information Systems
67-301 - Networks and Telecommunications
67-280 - Information System Security
67-313 - Information Systems Audit and Controls
Independent Study
Olympia Datta

Florida State University - Panama City

LIS 4351 - Interface Design
LIS 4276 - Quantitative Methods in Information Studies
LIS 4482 - Managing Networks and Telecommunications
LIS 4642 - Electronic Information Sources and Services
LIS 3267 - Information Science
LIS 3602 - Information Sources and Services
LIS 3353 - Technologies for Information Services

Professional Activities

Carnegie Mellon University

Chair, MOI Police Training Committee, 2012 - 2013
Chair, Undergraduate Conference in Information Systems, 2010, 2011, 2012
AIS Student Chapter Faculty Advisor 2009, 2010, 2011, 2012
2010 AIS Student Chapter Communication Award
2012 IT Risk Management Case Competition 1st Place Award

Member, First Year Students Advisory Committee, 2009 - Present
 Member, Second Year Students Advisory Committee, 2009 - Present
 Member, Librarian hiring committee, 2011 - 2012
 Member, IS faculty hiring committee, 2011, 2012
 Member, Head Librarian hiring committee, 2012
 Member, Assistant to Associate Teaching Faculty Promotion Committee (x1)
 Member, Outreach Review Committee, 2012

Florida State University

Member hiring committee for College of Information (Fall 04)
 Chaired hiring committee for IT faculty replacement (Fall/Spring 05/6)
 Co-chaired faculty meetings (Fall 04 and Fall 05)
 Member College of Information Undergraduate Committee (Fall 02 to Fall 06)

Reviewer

International Journal of Business Environment, ISSN 1740-0589.
 America's Conference on Information Systems (AMCIS), Spring 2014.
 America's Conference on Information Systems (AMCIS), Spring 2012.
 Hawaii International Conference on System Sciences (HICSS-43), 5-8 January, 2010
 9th International Business Information Management Association Conference (IBIMA), Marrakech, Morocco 4-6 January 2008
 International Conference on Information Systems (ICIS), Fall 2007.
 America's Conference on Information Systems (AMCIS), Spring 2006.
 Handbook of Information Security, H. Bigdoli, ed., John Wiley & Sons, 2005.
 ACM Special Interest Group for IT Education (SIGITE) conference, Fall 2005.

Professional Society Memberships

Member, American Statistical Association, 2013 - Present
 Member, American Psychological Association, 2013 - Present
 Member, Association for Information Systems, 2005 - Present
 Student Chapter Development Committee, 2010 - Present
 Secretary, Student Chapter Development Committee, 2011 - 2012
 Co-Chair, Student Chapter Awards Committee, 2011 - 2012
 Executive Committee and Founding Member, Qatar ISOC Chapter, 2011 - Present
 Member, National Cybersafety Committee, 2010 - Present
 Member, American Library Association, 2010 - Present

Grants, Awards, & Honors

Submitted

(2014) Siponen, M., Phelps, D., Hakim, M., NPRP No.: 7-1179-1-211, “A New Theory to Explain What Makes Software Professionals to engage in Questionable Software Development Practices”

(2014) Siponen, M., Phelps, D., Hakim, M., NPRP No.: 7-920-1-167, “Stage Theory to Explain Employees’ compliance with IS security procedures in organizations”

(2013) Siponen, M. and Phelps, D., NPRP No.: 6-554-5-055, “Understanding and Improving Employees’ Compliance with IS Security Procedures in Organizations”

(2012) Liginlal, D., Phelps, D., Kaba, L., NPRP No.: 5-831-5-129, “Who Goes There? Tracking The Socio-Technical Barriers To Digital Identity Adoption In Qatar”

(2011) Liginlal, D., Phelps, D., Kaba, L., NPRP No.: 4-1016-2-380, “Tracking the socio-technical and religious barriers to RFID adoption in the healthcare sector in Qatar”

Received

2010 SEED Research Funding awarded by Carnegie Mellon University

2007 Assisted in securing over \$1,000,000 towards research project

2006 \$107,000 Research Grant from IIA

2006 Travel Grant IIA International Conference Research Symposium

2014 Golden Key

1998 Beta Phi Mu

Last updated: February 18, 2015