Curriculum Vitae

David Eargle

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RESEARCH INTERESTS

1. Behavioral Information Systems Security
2. Human-Computer Interaction
3. NeuroIS

EDUCATION

Doctor of Information Systems Management, Katz School   **Graduation Expected 2017**

University of Pittsburgh, Pittsburgh, Pennsylvania, USA
- NSF Graduate Research Fellow
- GAR Foundation Fellow

Master of Information Systems Management, Marriott School   **August 2013**
Bachelor of Science, Information Systems, Marriott School   **August 2013**

Brigham Young University, Provo, Utah, USA
- Magna Cum Laude with University Honors
- PhD Preparation Track

EXPERIENCE

Adjunct Faculty

College of Business Administration at the University of Pittsburgh   **Fall 2015**
- Full responsibility for a class of 60 undergraduate students from various departments of the University of Pittsburgh's College of Business Administration.
- Complete direction over course curriculum, policies, and syllabus.
- Received good student evaluations

Katz Graduate School of Business at the University of Pittsburgh   **Fall 2013 – 2015**
- Taught four Microsoft Excel workshops to part-time MBA students

Department of Information Systems at Brigham Young University   **Summer 2013**
- Full responsibility for four college-level class sections on computer spreadsheet skills, with total enrollment of almost three hundred. Duties included lecturing to large groups, explaining difficult principles, working with students one-on-one, and administering exams and other assignments. Had oversight of three teaching assistants.
- Received good student evaluations for all class sections.

Research Assistant   **Fall 2011 to Summer 2013**

Assistant to Dr. Anthony Vance, Department of Information Systems at Brigham Young University
- Lead researcher in charge of planning, carrying out, analyzing, and perfecting an experiment entitled "Accountability through Justification: A New Approach to the Problem of Unauthorized Access of Information Systems". Proposed and implemented theoretical improvements to the experiment's research model. Wrote key parts of the introduction and theory sections for a research grant proposal for the same study which received a grant award of $19,704 in 2011. First author on the paper submitted to the Workshop on Information Security and Privacy, 2012 (Pre-ICIS workshop).
- Researched key theory behind and developed back-end web services for a field experiment studying entitled "Enhancing Password Security through Interactive Fear Appeals." Paper was accepted to IFIP WG8.11/WG11.13 Information Systems Security Research 2012 and HICSS 2013.
- Reviewed various conference and peer reviewed journal paper submissions. (See "Reviews" section for more information)
- Contributing member to a foundational study on gender differences in NeuroIS entitled "Neural Correlates of Gender Differences in Distinguishing Malware Warnings and Legitimate Websites: A NeuroIS Study" (see "Publications" section for more information)

Paraben Corporation Intern   **Summer 2012**

Paraben Corporation, Ashburn, VA
- Learned and practiced Digital Forensics
- Built a management console in .NET to capture login credentials for one of the company's flagship products, Mobile Device Seizure
- Wrote programming scripts to improve forensic investigation and product manufacturing quality assurance, using Powershell and PHP.
- Architected, designed, built, and managed the entirety of a new perpetual registration website for PFIC, the company's annual forensics conference. Built backend using CakePHP and MySQL.

Network and Systems Administrator   **Fall 2011 to Spring 2012**

Better Logic LLC, Orem, UT
- Researched, proposed, and implemented a backup solution for the company's office data.

- Installed and maintained VMware vSphere ESXi bare-metal virtualization system
- Established Windows Active Directory domain also with integrated Linux AD clients.
- Configured parts of networking in the company's new office location.

Web Developer   **Fall 2010 to Winter 2012**

Center for Teaching and Learning, BYU
- Developed instructor interface portions of the BYU Learning Suite, a Learning Management System that has replaced Blackboard at Brigham Young University.
- Involved in front-end and back-end programming on two major projects used by faculty and students at BYU. One is an online syllabus builder, and the other is a university forum where teachers can conduct discussions with their students via text, video, or audio.

Missionary   **2007 to 2009**

The Church of Jesus Christ of Latter-day Saints, Eugene, Oregon, Spanish-speaking
- Served a two-year proselyting mission.
- Served local church congregations throughout Oregon including the cities of Medford, Roseburg, Eugene, and Salem.

SERVICE

JMIS Website Editor   **2014 to Present**
- Manage the web presence at http://jmis-web.org for the Journal of Management Information Systems, one of the premier publication outlets in the field of Information Systems.

AIS IS Theory Wiki Editor   **Fall 2011 to Present**

Information Systems Theory Community Wiki, http://istheory.byu.edu, associated with the Association for Information Systems
- Perform regular site maintenance and improvements, and handle user questions.
- Implemented spam prevention measures, and migrated the wiki website to new server.

Ad hoc Reviewer
- Outlets such as ISR, EJIS, ECIS, ICIS, HICSS, CAIS, and The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13

HONORS AND AWARDS

- Fellowships
    - NSF Graduate Research Fellow - $132,000
    - GAR Foundation Fellow - $24,000
- Grants
    - David Berg Center for Ethics and Leadership - ~$8,420
    - Brigham Young University Marriott School of Business - ~$1,000
    - Rollins Center for Entrepreneurship & Technology (2013) - ~$4,000
- Scholarships
    - Brigham Young University Undergraduate Scholarship - $8,278
    - BYU Masters of Information Systems Management Scholarship - $4,380
    - Robert K. Thomas BYU Honors Department Scholarship - $1,488
    - Khona Family BYU Honors Department Scholarship - $1,488
    - Ella M. Herman Scholarship - $1,054
- Eagle Scout award, received at age 15.
- AIS Global Competition 2012, Windows Phone Development Track, 2nd Place Worldwide

REFEREED JOURNAL PUBLICATIONS

3. Anderson, B., Vance, A., Kirwan, B., **Eargle, D.**, Jenkins, J., "How Users Perceive and Respond to Security Messages: A NeuroIS Research Agenda and Empirical Study," *European Journal of Information Systems*, forthcoming.

2. Anderson, B., Kirwan, B., **Eargle, D.**, Jensen, S., Vance, A. 2015. "Neural Correlates of Gender Differences and Color in Distinguishing Security Warnings and Legitimate Websites: A Neurosecurity Study," Journal *of Cybersecurity*, 1 (1), pp. 109–120

1. Vance, A., Anderson, B., Kirwan, B., **Eargle, D.** "Using Measures of Risk Perception to Predict Information Security Behavior: Insights from Electroencephalography (EEG)," ***Journal of the Association for Information Systems***, 15 (10), pp. 679–722.

CONFERENCE PAPERS

15. Galletta, Dennis F., **David Eargle,** Janansefat, Shadi, Kunev, Dimitar, and Singh, Shivendu Pratap. "Integrating Social and Economic Models of Responding to Privacy Messages in Mobile Computing: A Research Agenda." *In Workshop on Information Security & Privacy.* Forth Worth, Texas: AIS SIGSEC and IFIP TC11.1, 2015.

14. **Eargle, David**, Dennis F. Galletta, Kirwan, C. Brock, and Anthony Vance. "Integrating Facial Threat Signals into Security Messages: An Extension of Media Naturalness Theory to an Information Security Context." *In 2015 Dewald Roode Workshop on*

Information Systems Security Research, IFIP WG8.11/WG11.13. Newark, Delaware, 2015.

13. Anderson, B., Kirwan, B., **Eargle, D.**, Howard, S., Vance, A. 2015. "How Polymorphic Warnings Reduce Habituation in the Brain – Insights from an fMRI study," *Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI), Seoul, Korea. 24% acceptance rate.

12. Anderson, B., Vance, A., Kirwan, B., **Eargle. D.**, Howard, S. 2014. "Users Aren't (Necessarily) Lazy: Using NeuroIS to Explain Habituation to Security Warnings," *International Conference on Information Systems,* Auckland, New Zealand.

11. **Eargle, D.**, Galletta, D., Siegle, G. 2014. Using Fearful Facial facial expressions to increase the effectiveness of protective security messages: Proposing an fMRI and field study. *The Dewald Roode Workshop on Information Systems Security Research,* IFIP WG8.11/WG11.13, Newcastle, UK.

10. Anderson, B., Vance, A., Kirwan, B., **Eargle, D**., Howard, S. 2014. "Why Users Habituate to Security Warnings: Insights from fMRI," *The Dewald Roode Workshop on Information Systems Security Research,* IFIP WG8.11/WG11.13, Newcastle, UK.

9. **Eargle, D.,** Taylor, R., Sawyer, L, Gaskin, J. 2014. "Acquiring IS Skill through Habitual Use," Hawaii International Conference on Systems Sciences, Big Island, HI.

8. **Eargle, D.,** Vance, A., Eggett, D., Lowry, Paul. 2013. "How Moral Intensity and Impulsivity Moderate the Influence of Accountability on Access Policy Violations in Information Systems," *Workshop on Information Systems & Privacy,* WISP AIS SIGSEC and IFIP TC11.1, Milan, Italy.

7. Anderson, B., Vance, A., **Eargle, D.,** Kirwan, C. Brock. 2013. "Is Your Susceptibility to Phishing Dependent on Your Memory?" *Workshop on Information Systems & Privacy,* WISP AIS SIGSEC and IFIP TC11.1, Milan, Italy.

6. Anderson, B., Vance, A., **Eargle, D.**, Kirwan, C. Brock. 2013. "Your Memory is Working Against You: How Eye Tracking and Memory Explain Susceptibility to Phishing." The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13, Niagara Falls, NY.

5. Vance, A., Anderson, B., Brock, K., **Eargle, D.** 2013. "Using Measures of Risk Perception to Predict Information Security Behavior: Insights from Electroencephalography (EEG)," JAIS workshop, *Gmunden Retreat on NeuroIS,* Gmunden, Austria.

4. **Eargle, D.,** Vance, A., Allen, G., Barrick, D., Peck, D., Bearnson, T., Tian, J. 2012. "Justifying Breaking the Glass: How Accountability Can Deter Unauthorized Access," *Workshop on Information Systems & Privacy*, WISP AIS SIGSEC and IFIP TC11.1, Orlando, FL.

3. Vance, A., **Eargle, D.**, Ouimet, K., Straub, D. 2013. "Enhancing Password Security through Interactive Fear Appeals: A Web-based Field Experiment," Hawaii International Conference on Systems Sciences, Wailea, HI.

2. Vance, A., **Eargle, D.**, Ouimet, K., Straub, D. 2012. "How Interactivity Can Enhance the Effectiveness of Fear Appeals: A Web-based Field Experiment of Password Security," The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13, Provo, UT.

1. Anderson, B., Hansen, J., Vance, A., Kirwan, B., **Eargle, D.,** Brown, D., Hinkle, Lee J, Weagel, A. 2012. "Neural Correlates of Gender Differences in Distinguising Malware Warnings and Legitimate Websites: A NeuroIS Study," The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13, Provo, UT.

PROFESSIONAL AFFILIATIONS
- IFIP Working Group 8.11/11.13, "Information Systems Security Research" Active Member
- Association for Information Systems Member

FOREIGN LANGUAGE
- Speak, read, and write Spanish