

EDUCATION

Degrees

- Doctor of Philosophy 2014
Iowa State University
Major: **Business and Technology**
Specialization: **Information Systems**
Dissertation: *A Three-Part Intersection of Psychology and Information Systems*
- Doctor of Philosophy 2009
Iowa State University
Major: **Computer Engineering**
Major: **Human Computer Interaction**
Minor: **Computer Science**
Dissertation: *Exploring Utilization of Visualization for Computer and Network Security*
- Master of Science 2012
Iowa State University
Major: **Psychology**
- Master of Business Administration 2010
Iowa State University
Major: **Business Administration**
Specialization: **Information Systems**
- Master of Science 2005
Iowa State University
Major: **Information Assurance**
Major: **Computer Engineering**
Thesis: *Roaming User-Based Distributed Firewalls*
- Bachelor of Arts 2002
Simpson College
Major: **Computer Science**

Certificates

- Iowa State University* 2011
Area: **Quantitative Psychology**
- Iowa State University* 2011
Area: **Graduate Student Teaching Certificate**
- Iowa State University* 2006
Area: **Preparing Future Faculty Scholar**
Area: **Preparing Future Faculty Fellow**
Area: **Preparing Future Faculty Associate**

ACADEMIC EXPERIENCE

Assistant Professor of Management Science and Information Systems <i>Oklahoma State University, Spears School of Business</i>	2013 – present
Lecturer <i>Iowa State University, College of Engineering</i>	2013
Lecturer <i>Iowa State University, College of Business</i>	2011 – 2012
Graduate Research Assistant <i>Iowa State University, College of Business</i>	2009 – 2013

RESEARCH

Research Interests

- Advanced Quantitative Analysis
- Technology Acceptance
- Computer and Network Security
- User Interface Design and Usability
- Visualization Systems

Refereed Journal Articles

- Luse, A., Townsend, A.M., Mennecke, B. (2018) "[The Blocking Effect of Preconceived Bias](#)," *Decision Support Systems*, Volume , Issue , pp. .
- Davazdahemami, B., Luse, A., Scheibe, K., Townsend, A.M. (2018) "[Training, Self-Efficacy, and Performance: a Replication Study](#)," *AIS Transactions on Replication Research*, Volume 4, Issue 1, pp. 1-18.
- Luse, A., Al Marzooq, A., Burkman, J. (2018) "[Windows Me: Using Antiquated Software to Learn about Security](#)," *IEEE Potentials*, Volume 37, Issue 2, pp. 10-12.
- Luse, A., Burkman, J. (2018) "[Safely Using Real-World Data for Teaching Statistics: A Comparison of Student Performance and Perceived Realism between Dataset Types](#)," *Journal of the Midwest Association for Information Systems*, Volume 2018, Issue 1, pp. 11-22.
- Luse, A., Hammer, B. (2017) "[High School Introductory Programming on Raspberry Pi Made From Scratch](#)," *International Journal of People-Oriented Programming*, Volume 6, Issue 2, pp. 33-45.
- Wang, D., Luse, A., Burkman, J. (2016) "[Dynamic visualization of time-based changes to data generated by Reddit.com: The Real Time Conversation Project](#)," *American Journal of Undergraduate Research*, Volume 13, Issue 4, pp. 59-68.
- Liang, N., Biros, D., Luse, A. (2016) "[An Empirical Validation of Malicious Insider Characteristics](#)," *Journal of Management Information Systems*, Volume 33, Issue 2, pp. 361-392.
- Laux, D., Luse, A., Mennecke, B. (2016) "[Collaboration, Connectedness, and Community: An examination of the factors Influencing Student Persistence in Virtual Communities](#)," *Computers in Human Behavior*, Volume 57, pp. 452-464.
- Luse, A. (2015) "[Estimating Random Effects in Multilevel Structural Equation Models Using Mplus](#)," *Journal of the Midwest Association for Information Systems*, Volume 2015, Issue 2, pp. 31-52.
- Carlson, P., Peters, A., Gilbert, S.B., Vance, J.M., Luse, A. (2015) "[Virtual Training: Learning Transfer of Assembly Tasks](#)," *IEEE Transactions on Visualization and Computer Graphics*, Volume 21, Issue 6, pp. 770-782. (<https://youtu.be/aAxBykcL32M>)

- Wang, Y., Townsend, A., Mennecke, B., Luse, A. (2014) "[Understanding the Moderating Roles of Types of Recommender Systems and Products on Customer Behavioral Intention to Use Recommender Systems](#)," *Information Systems and e-Business Management*, pp. 1-31.
- Luse, A., Rursch, J., Jacobson, D. (2014) "[Utilizing Structural Equation Modeling and Social Cognitive Career Theory to Identify Factors in Choice of IT as a Major](#)," *ACM Transactions on Computing Education*, Volume 14, Issue 3, pp. 1-19.
- Schiller, S., Mennecke, B., Nah, F., Luse, A. (2014) "[Institutional Boundaries and Trust of Virtual Teams in Collaborative Design: An Experimental Study in a Virtual World Environment](#)," *Computers in Human Behavior*, Volume 35, pp. 565-577.
- Luse, A., Mennecke, B. (2014) "[IT Can Matter: Co-Evolution Fostering IT Competitive Advantage](#)," *Management Research Review*, Volume 37, Issue 6, pp. 574-588.
- Luse, A., Mennecke, B., Townsend, A.M., Jacobson, D. (2014) "[Employing Interactive Maps to Increase User Utilization of Visualization Mechanisms for Network Security Management](#)," *Journal of Information Systems Security*, Volume 8, Issue 3, pp. 61-85.
- Luse, A., McElroy, J.C., Townsend, A.M., DeMarie, S. (2013) "[Personality and Cognitive Style as Predictors of Preference for Working in Virtual Teams](#)," *Computers in Human Behavior*, Volume 29, Issue 4, pp. 1825-1832.
- Luse, A., Mennecke, B., Triplett, J. (2013) "[The Changing Nature of User Attitudes Toward Virtual World Technology: A Longitudinal Study](#)," *Computers in Human Behavior*, Volume 29, Issue 3, pp. 1122-1132.
- Luse, A., Mennecke, B., Townsend, A.M. (2012) "[Selecting a Research Topic: A Framework for Doctoral Students](#)," *International Journal of Doctoral Studies*, Volume 7, pp. 143-153.
- Luse, A., Mennecke, B., Triplett, J., Karstens, N., Jacobson, D. (2011) "[A Design Methodology and Implementation for Corporate Network Security Visualization: A Modular-Based Approach](#)," *AIS Transactions on Human-Computer Interaction*, Volume 3, Issue 2, pp. 104-132. Accepted by editors Alan Hevner and Ping Zhang.
- Laux, D., Luse, A., Mennecke, B., Townsend, A.M. (2011). "[Adoption of Biometric Authentication Systems: Implications for Research and Practice in the Deployment of End-User Security Systems](#)," *Journal of Organizational Computing and Electronic Commerce*, Volume 21, Issue 3, pp. 221-245.
- Luse, A., Mennecke, B., Townsend, A.M. (2010). "[User Acceptance of Speech-Enabled Technologies for Configuration of Computer and Network Security](#)," *Journal of Information Privacy and Security*, Volume 6, Issue 4, pp. 28-49.
- Luse, A., Mennecke, B., Townsend, A.M. (2010). "[Improving Direction-Giving Through Utilization of an RFID-Enabled Kiosk](#)," *International Journal of Advanced Pervasive and Ubiquitous Computing*, Volume 2, Issue 2, pp. 45-56.
- Rursch, J., Luse, A., Jacobson, D. (2010). "[IT-Adventures -- A Program to Spark IT Interest in High School Students using Inquiry-Based Learning with Robotics, Game Design, and Cyber Defense](#)," *IEEE Transactions on Education*, Volume 53, Issue 1, pp. 71-79.
- Luse, A., Mennecke, B., Townsend, A.M. (2009). "[Electronic Forms-based Computing for Evidentiary Analysis](#)," *Journal of Digital Forensics, Security, and Law*, Volume 4, Issue 3, pp. 17-34.
- Luse, A., Scheibe, K.P., Townsend, A.M. (2009). "[Addressing Internal Security Threats with Roaming User-Based Distributed Firewalls](#)," *Journal of Information Systems Security*, Volume 5, Issue 2, pp. 26-41.
- Luse, A., Townsend, A.M., Scheibe, K.P. (2008). "[Software Implementation using Hardware-Based Verification for Secure Content Delivery](#)," *Journal of Information Warfare*, Volume 7, Issue 2, pp. 11-23.
- Luse, A., Scheibe, K.P., Townsend, A.M. (2008). "[A Component-Based Framework for Visualization of Intrusion Detection Events](#)," *Information Security Journal*, Volume 17, Issue 2, pp. 95-107.

- Scheibe, K.P., Mennecke, B., Luse, A. (2007). [“The Role of Effective Modeling in the Development of Self-efficacy: The Case of the Transparent Engine,”](#) *Decision Sciences Journal of Innovative Education*, Volume 5, Issue 1, pp. 21-42.

Refereed Book Chapters

- Luse, A., Townsend, A.M., Scheibe, K.P. (2008). “Firewalls: Continuing Solutions for Network Security,” [Handbook of Research on Information Security and Assurance](#).

Refereed Conference Publications

- Luse, A., Burkman, J., [“An Evaluation of Scales Used for Measuring Attribution,”](#) 12th Annual Midwest Association for Information Systems Conference (MWAIS 2017), Springfield, IL, May 18-19, 2017.
- Kalgotra, P., Luse, A., Sharda, R., [“Take Control of Interruptions in Your Life: Lessons from Routine Activity Theory of Criminology,”](#) Hawaii International Conference on System Sciences (HICSS-50), Honolulu, HI, January 4-7, 2017.
- Biros, D., Liang, N., Luse, A., [“Taxonomy of Malicious Insiders: A Proof of Concept Study,”](#) The Twenty-Second Americas Conference on Information Systems (AMCIS 2016), San Diego, CA, August 11-13, 2016.
- Luse, A., Rursch, J., Jacobson, D., [“When Size Does Matter: Identifying Multilevel Factors Contributing to IT Major Choice,”](#) 11th Annual Midwest Association for Information Systems Conference (MWAIS 2016), Milwaukee, WI, May 19-20, 2016.
- Luse, A., [“Estimating Random Effects in Multilevel Structural Equations Models,”](#) 9th Annual Midwest Association for Information Systems Conference (MWAIS 2014), Ames, IA, May 15-16, 2014.
- Luse, A., Mennecke, B., Townsend, A.M., DeMarie, S., [“Strategic Information Systems Security: Definition and Theoretical Model,”](#) The Nineteenth Americas Conference on Information Systems (AMCIS 2013), Chicago, IL, August 15-17, 2013.
- Smarandescu, L., Peters, A., Mennecke, B., Luse, A., “Mesmerized: The Effect of Moving Digital Displays on Food Preference,” The Fourteenth Annual Meeting of The Society for Personality and Social Psychology, New Orleans, LA, January 17-19, 2013.
- Luse, A., Mennecke, B., Townsend, A.M., [“Experience Richness: Effects of Training Method on Individual Technology Acceptance,”](#) Hawaii International Conference on System Sciences (HICSS-46), Grand Wailea, Maui, HI, January 7-10, 2013.
- Wang, Y.Y., Townsend, A.M., Luse, A., Mennecke, B., [“The Determinants of Acceptance of Recommender Systems: Applying the UTAUT Model,”](#) 18th Americas Conference on Information Systems (AMCIS 2012), Seattle, WA, August 9-11, 2012.
- Rursch, J., Luse, A., Jacobson, D., [“Using Content Analysis to Evaluate Student Inquiry-Based Learning: The Case of High School Students Preparing for a Cyber Defense Competition,”](#) 2012 Annual Meeting of the American Society for Engineering Education, San Antonio, TX, June 10-13, 2012.
- Townsend, A.M., Triplett, J., Mennecke, B., Luse, A., [“Object and Symbol in Technology Adoption,”](#) International Conference on Information Systems (ICIS 2010), St. Louis, MO, December 12-15, 2010.
- Vidrio-Baron, S., Luse, A., [“Development of a culturally-oriented website usability evaluation,”](#) 15th Americas Conference on Information Systems (AMCIS 2009), San Francisco, CA, August 6-9, 2009.
- Luse, A., Triplett, J., [“Utilizing Visualization Mechanisms to Improve User Performance during Cyber Defense Competitions,”](#) 4th Annual Midwest Association for Information Systems Conference (MWAIS 2009), Madison, SD, May 22-23, 2009.
- Triplett, J., Laux, D., Luse, A., Tao, L.E., [“Customer Acceptance of Biometric Technology,”](#) 4th Annual Midwest Association for Information Systems Conference (MWAIS 2009), Madison, SD, May 22-23, 2009.

- Luse, A., Vidrio-Baron, S., Mennecke, B., Townsend, A.M., “[A Location-based Approach for Distributed Kiosk Deign](#),” 14th Americas Conference on Information Systems (AMCIS 2008), Toronto, ON, Canada, August 14-17, 2008.
- Meléndez, J.C., Luse, A., Townsend, A.M., Mennecke, B., “[Convergence of Physical and Logical Security: A Pre-implementation Checklist](#),” 3rd Annual Midwest Association for Information Systems Conference (MWAIS 2008), Eau Claire, WI, May 23-24, 2008.
- Luse, A., Townsend, A.M., “[Improving Direction-Giving Through Utilization of an RFID-Enabled Kiosk](#),” 2008 IEEE International Conference on Electro/Information Technology (EIT 2008), Ames, IA, May 18-21, 2008.
- Jordan, Z., Marsh, E., Luse, A., Tao, L.E., “[GuardDV: A Proximity Detection Device for Homeless Survivors of Domestic Violence](#),” 26th Annual Computer Human Interaction Conference (CHI 2008), Florence, Italy, April 5-10, 2008.
- Luse, A., “Allowing for Greater Network Security Management through Incorporation of a Distributed Management System,” 5th Annual Big XII MIS Research Symposium, Lawrence, KS, March 31-April 1, 2007.
- Luse, A., “Who Sent That? The Shortcomings of Public-Key Certification,” 4th Annual Big XII MIS Research Symposium, Waco, TX, April 1-2, 2006.

Other Publications

- Carlson, P., Peters, A., Gilbert, S.B., Vance, J.M., Luse, A. (2015) “Virtual Training: Learning Transfer of Assembly Tasks,” IEEE Virtual Reality (VR 2015), Arles, France, March 23-27, 2015. (*invited paper*)
- Townsend, A.M., Luse, A. (2008). “[Firewalls and Intrusion Prevention Systems](#),” *Inside Supply Management*, Volume 19, Issue 4.

Papers Under Review

- Schiller, S., Mennecke, B., Nah, F., Luse, A., “Men Are from Mars, Women Are from Venus: Dyad Team Collaboration in an Immersive Virtual World,” Submitted to *Journal of Management Information Systems*, January, 2018.
- Rursch, J., Luse, A., Jacobson, D., “Using a Network Testbed and Weekly Skill Mastery Assignments to Facilitate a Real World Final Project in a Networking Course,” Revise and resubmit with *IEEE Transactions on Education*, July, 2017.

Research In Progress

- Luse, A., Mennecke, B., Townsend, A.M., “Does Technology Thwart Gender Stereotypes: An Impression Formation-based Examination of the Differential Influence of Technology across Gender and Message,” Submitted to *Information Systems Journal*, May, 2017.
- Luse, A. Burkman, J., “Learned Helplessness Attributional Scale (LHAS): Development and Validation of an Attributional Style Measure for MIS Research.”
- Harrison, A., Luse, A., Mennecke, B., Townsend, A.M., Triplett-Newell, J., “The Role of Meaning in Technology Acceptance: Combining Image and Text Analysis to Derive Sign and Symbol in Mobile Technology Use.”
- Luse, A., Harrison, A., Mennecke, B., Townsend, A.M., “Experience Richness: Effects of Training Method on Individual Technology Acceptance.”
- Luse, A., Mennecke, B., Townsend, A.M., “Strong vs. Weak: An Evaluative Mechanism for Theoretical Development.”
- Cunningham, L., Luse, A., Hammer, B., “The Reality of Diagnosing Joint Hypermobility Syndrome for Licensed Clinicians and Student Learners.”

- Hammer, B., Luse, A., “The Evolving Organizational Identity of MIS,”.
- Hammer, B., Luse, A., “How Online Privacy-Related Behavior is Induced by the Behavioral Activation and Inhibition Systems,”.

Grants and Funded Project Participation

NSA

March 2017 – May 2018

\$289,000

Iowa State University – Department of Computer Engineering, Ames, IA

Oklahoma State University – Department of Management Science and Information Systems, Stillwater, OK

- Co-PI on grant to develop learning modules for computer security using the ISEAGE Internet testbed.

John Deere

August 2012 – January 2013

Iowa State University – Department of Industrial Engineering, Ames, IA

- Aided in statistical analysis of user tests evaluating a new smart harvest technology using simulators.

Boeing

October 2012 – April 2013

Iowa State University – Department of Industrial Engineering, Ames, IA

- Aided in statistical analysis of user tests evaluating fighter pilot experience in a virtual reality environment.

Cyber Defense Competitions (CDCs)

September, 2005 – May 2012

Iowa State University – Department of Electrical and Computer Engineering, Ames, IA

- Competitions involve groups of students defending their computer networks against a team of attackers.
- Aided in the development of a visualization system for use during the CDCs.
- Provided administrative aid to students during the competition.
- Conducted research utilizing students in the competition.

Development of a Recruiting, Selection, and Retention System to

May, 2007 – November, 2008

Enhance Crime Lab Ability to Identify and Hire Appropriate Lab Personnel

Grant funded by *National Institute of Justice in association with the Midwest Forensic Resource Center*

- Analyzed current trends in recruitment of college students by forensic crime labs.

Developing a Customer Satisfaction Survey for Forensic Laboratories.

August, 2007 – May, 2007

Grant funded by *Community Oriented Policing Services Program (COPS) in association with the Midwest Forensic Resource Center*

- Provided development work as the sole programmer.
- Developed system for designing and creating customer satisfaction surveys.
- Developed web-based software for ease of dissemination and collection of surveys.
- Decided upon needed questions and constructs for the surveys.

Feasibility and Proof of Concept of Utilizing Radio Frequency Identification Tagging Technology to Manage Evidentiary Materials in Forensic Laboratories: Technical Innovations in Management and Infrastructure. July, 2006 – May 2007

Grant funded by *National Institute of Justice and Midwest Forensic Resource Center*

- Provided development work as the sole programmer.
- Developed system utilizing RFID technology to improve the process of gathering and analyzing evidence for crime labs.
- Developed 2D bar-coding system for backup to RFID.
- Developed forms based computing system for use in a Tablet PC, evidentiary analysis environment.

TEACHING EXPERIENCE

Teaching Interests

- Network Telecommunications
- Database Design and Administration
- Quantitative Research Methods
- Computer and Network Security
- Software/Web Development
- Human Computer Interaction

MSIS 4233: Applied Information Assurance S/F 2014, S/F 2015, S/F 2016, F 2017, S 2018
Oklahoma State University, Stillwater, OK

- Completely hands-on course on offensive techniques of cyber attackers.
- Implemented individual lab module using ESXi virtualization technology.

MSIS 4523: Data Communication Systems F 2013, S/F 2014, S/F 2015, S/F 2016, F 2017, S 2018
Oklahoma State University, Stillwater and Tulsa, OK

- Networking course for MIS majors.
- Implemented group lab module using ESXi virtualization technology.

MKTG 6413: Advanced Marketing Research F 2014, F 2015, F 2016, S 2018
Oklahoma State University, Tulsa, OK

- Five week course on multilevel statistical modeling for doctoral students in executive Ph.D. program.

MSIS 6333: Overview of MSIS Research: Research Methods and Data Analysis Spring 2016
Oklahoma State University, Stillwater, OK

- Ph.D. seminar on methodological issues for doctoral students in the MSIS Ph.D. program.

MSIS 6333: Overview of MSIS Research: Security, Privacy, and Trust Fall 2015
Oklahoma State University, Stillwater, OK

- Ph.D. seminar on security, privacy, and trust for doctoral students in the MSIS Ph.D. program.

MSIS 6333: Overview of MSIS Research: Introduction to IS Research Fall 2014
Oklahoma State University, Stillwater, OK

- Ph.D. seminar on seminal and current research in the MSIS Ph.D. program.

HCI/PSYCH 522: Scientific Methods in Human Computer Interaction

Spring 2013

Iowa State University, Ames, IA

- Research methods course for masters and doctoral students in the HCI program.
- Covered wide range of topics including experimental/non-experimental designs, between/within subjects designs, and qualitative research.
- Taught both in-class and online concurrently.

MIS 435: Information Systems Infrastructure

Fall 2012

Iowa State University, Ames, IA

- Networking course for MIS majors.
- Implemented new group lab module using ESXi virtualization technology.

MIS 207: Fundamentals of Computer Programming

Fall 2011, Spring 2012

Iowa State University, Ames, IA

- Introductory object-oriented programming course for MIS majors.
- Developed entire course from scratch (first time the course was offered).

MIS 434: Electronic Commerce Strategy

Fall 2010

Iowa State University, Ames, IA

- Course on the strategic use of electronic commerce by the organization.
- Implemented new lab module.

MIS 590: Current Issues in IS Research

Spring 2008

Iowa State University, Ames, IA

- Developed new Ph.D. seminar course covering current issues in IS research.
- Developed a method for programmatically retrieving relevant articles in current research streams in IS.

MIS 539: Seminar on IS Behavioral Issues

Fall 2007

Iowa State University, Ames, IA

- Develop new Ph.D. seminar course covering behavioral issues in IS.

HON 322: Tracking Technologies: Contemporary Uses of RFID

Spring 2007

Iowa State University, Ames, IA

- Helped develop material for a new honors course dealing with contemporary tracking technologies including radio frequency identification (RFID) tagging and 2D barcodes.
- Co-taught course by preparing and delivering ½ of the lectures and checking all assignments, projects, etc.

MIS 330: Management Information Systems

Fall 2006

Iowa State University, Ames, IA

- Taught introductory computer concepts to business students.
- Implemented a multi-part lab assignment never before used in the course.

Preparing Future Faculty

August, 2005 – December, 2006

Iowa State University, Ames, IA

- Achieved the status of Scholar and a graduate certificate for completing all four semesters of work.
- Discussed topics with faculty panelists such as promotion and tenure, service, and teaching success which are important for development as a university/college professor.
- Teaching and programming lab component for one week of an undergraduate course in electronic commerce.
- Teaching and programming lab component for two weeks of a graduate course in database systems.
- Developed and evaluated assignments which coincided with the lectures in each of the above classes.

Doctoral Dissertation

- Pankush Kalgotra, Committee member Summer 2017
Oklahoma State University
Healthcare Analytics
- Peter (Nan) Liang, Committee member Spring 2017
Oklahoma State University
Deception Detection
- Hamed Majidi Zolbanin, Committee member Spring 2016
Oklahoma State University
Improving Healthcare Outcomes by Business Analytics
- Michiel Bosman, Committee member Fall 2015
Oklahoma State University
“Leadership Climate, Attitudes, and Evidence-Based Management Behavior”
- Dawn Laux, Committee member Fall 2014
Iowa State University
“A Model for Measuring Student Persistence through Collaborative Learning”

Master’s Thesis

- Yen-Yao Wang, Advisor Spring 2008
Iowa State University
“Antecedents of Review and Recommendation Systems Acceptance”

Undergraduate Honors Research Project

- Carson Walker Fall 2017
Oklahoma State University
“Using Raspberry Pi as a WAP using OpenWRT”
- Amanda Brown Fall 2016
Oklahoma State University
“Lab Update to Recent Server Versions”
- Daniel Wang Spring 2016
Oklahoma State University
“Reddit Visualization”
- Daniel Wang Fall 2014
Oklahoma State University
“Old Windows Installations”

- Luke Henkenius Spring 2014
Oklahoma State University
“Hacktivism”
- Bidwell, Zeb, Advisor Spring 2008
Iowa State University
“Radio Frequency Identification”

Guest Lectures

Multilevel Modeling Spring 2014
Oklahoma State University, Tulsa, OK
Executive Ph.D. Program

- Overview of multilevel modeling and its use in research.

Using the ISERink Network Testbed in an Introductory Network Course Spring 2014
Iowa State University, Ames, IA
NSF-sponsored Conference

- Presented on my use as a beta tester of a new network testbed that was being deployed to other schools.

Project Server for Project Management Spring 2010
Iowa State University, Ames, IA
MIS 539 – Project Management

- Lecture concerning use of Project Server and its integration with the project management process.

Utilizing SharePoint for Your MBA Education Fall 2009
Iowa State University, Ames, IA
Orientation – Fulltime MBA Program

- Lecture concerning basic use of SharePoint.
- Provide examples of SharePoint use during an MBA program.

SharePoint Administration Summer 2008
Iowa State University, Ames, IA
HCI 594 – Organization Applications of Collaborative Technologies and Social Media

- *Online* lecture pertaining to SharePoint administration basics.

Teaching a Course on Your Own & August, 2006
Challenging Situations: Dealing with Stress, Students, and Superiors
Iowa State University, Ames, IA
2006 University Teaching Seminar

- Provided advice and tips during two sessions for new teaching assistants at Iowa State.
- In the first session, presented advice for teaching your first standalone course.
- In the second session, led a panel discussing possible problems and associated solutions while being a teaching assistant.

Database Programming Using ASP.NET

Fall 2004

Iowa State University, Ames, IA

MIS 533 – Data Management for Decision Makers

- Lectured on the use of ASP.NET as a front-end to the database systems the students were discussing and developing in class.

Ecommerce Web Development Using ASP.NET

Fall 2004

Iowa State University, Ames, IA

MIS 434 – Electronic Commerce

- Lectured on the use of ASP.NET as a mechanism for website development and how it interacts with the datasource(s) on the backend.

WORK EXPERIENCE

Systems Support Specialist

January, 2005 – August 2013

Iowa State University College of Business, Ames, IA

- Developed software systems for college including a kiosk system, undergrad advisee cataloging system, current class list modification system, online employee timecard system, employee profile updating system, as well as many other projects.
- Assisted faculty and staff with various systems-related issues.

Software Engineering Intern

May, 2005 – August, 2005

IBM Corporation, Rochester, MN

- Analyzed, developed, implemented, and optimized changes in the automatic compilation of Linux kernels to allow compatibility with iSeries mainframes; adding a time savings from over 30 minutes down to 2.
- Developed an implementation plan for utilizing the above project in production.

Software Development Intern

May, 2004 – August, 2004

Rockwell Collins Incorporated, Cedar Rapids, IA

- Cleared TOP SECRET to enable analysis of TS material.
- Analyzed AES encryption algorithm along with another TS algorithm. Implemented a software version of AES.
- Developed a departmental website using Microsoft ASP.NET.
- Worked with management to alleviate Change Request backlog and help develop progress reports.

SNEIP Intern (Summer Network Evaluation Intern Program)

May, 2003 – August, 2003

National Security Agency, Fort George Meade, MD

- Cleared TOP SECRET (TS)\Sensitive Compartmented Information (SCI)\TALENT-KEYHOLE (TK) after an Agency Special Background Investigation (SBI) and polygraph.
- Worked with an Architecture Team to conduct penetration tests to verify security for hardware devices (routers, firewalls, switches, printers, etc.) both in-house and offsite.
- Developed software to aid in the gathering and analyzing of penetration-testing data.

Application Development Intern
EFCO Corporation, Des Moines, IA

May, 2002 – August, 2002

- Developed Access Forms and Reports as a front to a Microsoft SQL Server Database.
- Implemented Microsoft ADO and DAO using Visual Basic in the background to modify the database.

CERTIFICATIONS

- Server Virtualization with Windows Server Hyper-V and System Center
- Network+
- Microsoft Certified Systems Administrator

MEMBERSHIPS

- AIS October, 2005 – Present
- ACM October, 2005 – Present
- IEEE September, 2005 – Present

AWARDS AND HONORS

- MSIS 2016 Department Faculty Award 2016
Oklahoma State University
- Richard W. Poole Research Excellence Award 2016
Oklahoma State University
- Graduate Research Excellence Award 2013
Iowa State University
- Graduate Teaching Excellence Award 2013
Iowa State University
- IEEE Transactions on Education Best Paper Award 2011
IEEE Education Society
- Saturday MBA Top Performing Student 2009
Iowa State University
- Saturday MBA Top Performing Team 2009
Iowa State University
- Graduate Research Excellence Award 2009
Iowa State University
- Golden Key International Honor Society Inductee 2009
Iowa State University
- Graduate and Professional Student Senate Research Award 2008
Iowa State University
- Graduate Teaching Excellence Award 2007
Iowa State University
- Beta Gamma Sigma Inductee 2004
Iowa State University
- Top Senior in Computer Science 2002
Simpson College
- Top Junior in all Sciences 2001
Simpson College

SERVICE

Department

- OSU Up Close Fall 2016, Fall 2017
Conducted password cracking lab with six groups of high school juniors and seniors.
- OSU Scholars Day Fall 2017
Conducted password cracking lab with groups of high school seniors.
- MSIS Hiring Committee Fall 2016, Fall 2017, Spring 2018
- Telecom Lab Manager Summer 2014 – present
- Ph.D. Committee Fall 2013 – present
- Undergraduate Commencement F 2014, S/F 2015, S/F 2016, S/F 2017
- iSyte high school summer camp instructor (led three sessions) Summer 2014, 2015, 2016, 2017
- Telecom Lab Demolition Specialist Summer 2014, 2015
- Southwest CCDC Competition Faculty Advisor Spring, 2015
- Ph.D. Colloquium Organizer Spring 2015
- Ph.D. Seminar instructor (three 3-hour sessions) (MSIS 6333) Fall 2014
- NSA CAE Recertification committee Fall 2014
- Telecom lab server reorganization Summer 2014
- IA program revamp and masters addition committee Summer 2014

Profession

- Big12++ MIS Research Symposium Web Mastermind Fall 2017 – Spring 2018
- Reviewer for JMIS Fall 2016, Fall 2017
- Reviewer I&M Fall 2017
- Program committee and session chair for MWAIS Spring 2017
- Reviewer for DS Fall 2016
- Reviewer for HICSS Summer 2016
- Reviewer for AMCIS Spring 2016
- Program committee for MWAIS Spring 2016
- Reviewer for MWAIS Spring 2016
- Reviewer for DS Spring 2016
- Reviewer for ICIS Summer, 2015
- Reviewer for 14th Annual Big XII MIS Research Symposium Spring, 2015
- Reviewer for EJIS Spring 2014
- Reviewer for MWAIS Spring 2014
- Session chair for MWAIS Spring 2014
- Reviewer for ICIS Summer, 2013
- Reviewer for 12th Annual Big XII MIS Research Symposium Spring, 2013
- Reviewer for ICIS Summer, 2011
- Reviewer for PACIS Spring, 2011
- Reviewer for MWAIS Spring, 2011

- Invited Presentation
Security and Human Computer Interaction: Finishing a Ph.D. Dissertation
Simpson College January 27, 2010
- Reviewer for Journal of Database Management Spring, 2009
- Reviewer for SIGHCI (AMCIS 2009) Spring, 2009
- Session Chair for SIGHCI (AMCIS 2008) August 16, 2008
- Birds-of-a-Feather session facilitator (AMCIS 2008) August 14, 2008
- Invited Presentation
Security and HCI: Finishing a Ph.D. Dissertation
Simpson College January 27, 2010
- Invited Presentation
A Framework for Intrusion Detection Visualization
Iowa State University
Emerging Technologies Conference 2008 April 4, 2008
- Reviewer for *5th Annual Big XII MIS Research Symposium* Spring, 2007
- Invited Presentation
Life after Simpson: Internship and Grad School Experiences
Simpson College
Computer Science Seminar Series October 24, 2005

Community

- Tutoring
Stillwater, OK February 9, 2016
Tutored local area middle school cub scouts in the basics of passwords, security, and pen testing.
- GRIP Mentoring (Great Relationships In Pairs) January, 2007 – May, 2010
Gilbert, IA
Mentor local middle school student by meeting with him once per week for lunch and activities.
- Mentoring Spring, 2006
Ankeny, IA
Mentored local at-risk high school student once per week.
- Tutoring August, 2005
Rochester, MN
Tutored local area high school students in Visual Basic programming through an educational cooperative headed by IBM.