

## CURRICULUM VITAE OF NANCY L. MARTIN, PH.D.

### I. PROFESSIONAL AFFILIATION AND CONTACT INFORMATION

#### A. Present University Department or Unit:

Information Technology Program  
School of Analytics, Finance, and Economics

#### B. Office Address:

Mail Code 6614  
1365 Douglas Drive, Room 101b  
Southern Illinois University  
Carbondale, IL 62901  
E-Mail: nlmartin@siu.edu  
(618) 453-8838

### II. EDUCATION

Ph.D., Business Administration, 2006  
Southern Illinois University, Carbondale, IL

B.S., Computer Science, 2002  
Southern Illinois University, Carbondale, IL

### III. PROFESSIONAL EXPERIENCE

#### **Southern Illinois University Carbondale, 2007-present**

Information Technology Program

*Program Coordinator, 2020*

*Interim Director, May – December, 2019*

*Associate Professor, 2013 – present*

*Assistant Professor, 2007 – 2013*

- Oversee the ITEC program assessment and accreditation
- Teach undergraduate courses: Cases in Information Systems Technologies, IT Project Management, Database Design & Management, Database Administration, Intro to Oracle SQL, Healthcare Information Technology
- Conduct research on information security behavior in various fields, information privacy and security in healthcare, IT education, curriculum, and pedagogy, ethics and IT, women in technology
- Develop multiple courses and curricula

**Southern Illinois University Carbondale, 2006-present**

Department of Management

College of Business

*Adjunct Associate Professor, 2011-present*

- Teach undergraduate courses in the online Management degree program:  
Business Communications, Business Data Analysis
- Teach graduate course: Systems Analysis and Design

*Lecturer, 2006-2007*

- Taught graduate courses: Database, Decision Support Systems

**Governors State University, University Park, IL, 2013-present**

Department of Management Information Systems

College of Business

*Adjunct Associate Professor, 2013-present*

- Teach graduate course in the Master of Science in Management Information Systems degree program: Information Systems and Technology

**Blue Cross Blue Shield of Illinois, 1984–1997**

- Manager, Provider Telecommunications Service Center
- Manager, Financial Payment Recovery Department
- Project manager for multiple systems implementations: claims processing system, call center telephone system, payment recovery system

**IV. RESEARCH AND CREATIVE ACTIVITY**

**A. Interests and Specialties:**

IT education, Information security behavior, Program assessment and accreditation, Data analytics

**B. Current Projects:**

Journal and Conference Papers in Progress:

- Assessment and Accreditation of Online IT Programs
- Assessment and Accreditation of Competency-based Education Programs
- Privacy and Security of Health Information

**C. Grants Applied for:**

- Department of Labor, *TechHire Training Program*, (Co-Pi with Tom Imboden), \$3,408,406, 2016
- National Science Foundation, *Growth and Training Impact in IT: A Measure of Ethical Reasoning*, (Co-PI with Belle Woodward), 2010
- Faculty Seed Grant, SIU Office of Research and Development, 2009-2010
- Undergraduate Assistantship Award, SIU, 2009, 2010
- Excellence Through Commitment Teaching Enhancement Grant, SIU, 2009, 2010

#### **D. Grants Received:**

- Association of Computing Machinery's Special Interest Group on Information Technology Education, 2020, *Investigating the Current State of IT Faculty Profiles and Hiring*, \$5,725.
- SIU Extended Campus Online Course Development Grant, 2018, *IST 365: Into to Data Analysis with R*, \$6,000
- National Security Agency, 2015, *Collegiate Cybersecurity Competition Scholarship and Award*, (Co-PI with Tom Imboden and others), \$10,902
- National Center for Women & Technology Seed Fund Award, 2013, \$10,000
- Joint Women's Studies and University Women's Professional Advancement Research, Scholarly and Creative Activities Grants, SIU, 2011-2012, \$600
- Undergraduate Assistantship Award, SIU, 2008-2009
- University Women's Professional Advancement Research, Scholarly and Creative Activity Award, SIU UWPA and Women's Studies, 2009, \$600
- Pontikes Center Grant, SIU College of Business, 2004

#### **E. Honors and Awards:**

- 2017 CASA Teacher of the Year, College of Applied Sciences and Arts, Southern Illinois University
- 2017 ISAT Teacher of the Year, School of Information and Applied Technologies, College of Applied Sciences and Arts, Southern Illinois University
- Fellow, National Library of Medicine Georgia Biomedical Informatics Course, April 2-8, 2017. Sponsored by the National Library of Medicine.
- Meritorious Paper Award, Information Systems Education Conference, 2012, 2014
- Summer Research Support, College of Applied Sciences and Arts, 2014
- College of Applied Sciences and Arts Research Paper of the Year, Southern Illinois University, 2010
- International Conference on Information Systems Doctoral Consortium, 2005
- Dissertation Fellowship, Southern Illinois University Graduate School, 2005-2006
- Jay M. Mohr Memorial Scholarship for Management, Southern Illinois University, 2005-2006
- Doctoral Fellowship, Southern Illinois University Graduate School, 2004-2005
- Research Grant, Pontikes Center For Management of Information, Southern Illinois University, 2003
- Masters Fellowship, Southern Illinois University Graduate School, 2002-2003

#### **F. Papers and Presentations at Professional Meetings:**

Martin, N. (2020). An Academic Profile of IT Program Leadership in the U.S. In *Proceedings of ACM SIGITE conference (SIGITE'20)*, October 7–9, 2020, Virtual Event.

Martin, N. (2019). Designing the IT Capstone Course: A Systematic Literature Review. *SIGITE '19, 20th Annual SIG Conference on Information Technology Education*, Tacoma, WA.

Aguirre, X., Woodward, B., & Martin, N. (2018). Perception of Privacy Through Generations Submission, annual meeting of *International Association for Computer Information Systems International Conference*, Clearwater, FL.

Martin, N.L. & Soares, A. (2015). Organizing an App Inventor Summer Camp for Middle School Girls: What the Experts Don't Tell You. *EDSIG Conference on Information Systems and Computing Education*. Wilmington, NC.

Martin, N., Imboden, T., & Green, D. (2015, October). HIPAA Security Rule Compliance in Small Healthcare Facilities: A Theoretical Framework. Paper presented at annual meeting of *International Association for Computer Information Systems International Conference*, Clearwater, FL.

Soares, A., Martin, N., Fonseca, F. (2015, October) Teaching Introduction to programming with Game Design and Problem-based Learning. Paper presented at annual meeting of *International Association for Computer Information Systems International Conference*, Clearwater, FL.

Chung, S., Imboden, T., Soares, A., Martin, N., & Woodward, B. (2015). Rebirth of IT Degree Program. Panel presentation at *ACM SIGITE Conference*. Chicago, IL.

Martin, N.L. (2014). HIPAA Security Rule Compliance in Small Healthcare Facilities: A Theoretical Framework. *Applied Sciences and Arts Research Symposium, Southern Illinois University*. November 22, 2014.

Martin, N.L. (2014). IT0: Discrete Math and Programming Logic Topics as a Hybrid Alternative to CS0. *Information Systems Education Conference*. Baltimore, MD.

Martin, N.L. & Imboden, T.R. (2014). Information Security and Insider Threats in Small Medical Practices. Poster presented at the *ISAT Research Symposium*, September 12, 2014.

Martin, N.L. & Imboden, T.R. (2014). Information Security and Insider Threats in Small Medical Practices. Poster presented at the *Twentieth Americas Conference on Information Systems*. Savannah, GA.

Martin, N. (2013). Southern Illinois University: Build Your Own Android App Camp. *National Center for Women & Information Technology Annual Summit*, Tucson, AZ.

Martin, N.L. & Woodward, B. (2012). Building a Cybersecurity Workforce with Remote Labs, *Information Systems Education Conference*, New Orleans, LA.

Martin, N. (2012). Ethics in Information Technology: Exploring Gender and Ethical Judgment, *Celebrate Women Events*, Southern Illinois University, March 8, 2012.

Martin, N.L. & Woodward, B. (2011). Will They or Won't They? Exploring Ethical Judgment, Gender, Age, Geographic Region and Behavioral Intent. *Information Systems Education Conference*, Wilmington, NC.

Martin, N.L. & Woodward, B. (2011). Computer Ethics of American and European Information Technology Students: A Cross-Cultural Comparison. *51st Annual Conference for the International Association of Computer Information Systems*, Mobile, AL.

Woodward, B., Martin, N., & Imboden, T. (2010). Expansion and Validation of the PAPA Framework. *Information Systems Educators Conference*, Nashville, TN.

Martin, N. (2010). Computer Science without Computers, *Expanding Your Horizons Workshop*, Southern Illinois University, October 9, 2010

Martin, N.L. and Green, D.T. (2009). A Resource Based View of Business Method Patents. *Fifteenth Americas Conference on Information Systems*. San Francisco.

Martin, N. (2009). Business Method Patents, *Celebrating Scholarship By and About Women Event*, Southern Illinois University, March 18, 2009

Nelson, H.J., Ahmad, A., Martin, N.L., & Litecky, C.R. (2007). A Comparative Study of IT/IS Job Skills and Job Definitions. *SIGMIS-CPR*, St. Louis.

Martin, N.L. & Mykytyn, P.P. (2006). Business Method Patents: Do Owners Gain/Sustain Competitive Advantage? *International Conference on Information Systems*, Las Vegas.

Martin, N.L. (2005). The Influence of National Culture on Strategic Information Systems Planning in Small and Medium Size Enterprises. *36th Annual Meeting of the Decision Sciences Institute*. San Francisco.

Martin, N.L., Furumo, K.A., & Pearson, J.M. (2004). Project Management in IS: Fit Matters. *Tenth Americas Conference on Information Systems*. New York.

Rahman, M., Martin, N.L., Paul, S. (2003). Data Mining, Group Memory and Group Decision Making: A Theoretical Framework. *Ninth Americas Conference on Information Systems* Tampa, FL.

## **V. PUBLICATIONS AND CREATIVE WORKS**

### **A. Articles in Professional Journals:**

Aguirre, X., Woodward, B., & Martin, N.(2018). Perceptions of Privacy Through Generations. *Issues in Information Systems*, 19(1), 83-90.

Martin, N.L. & Soares, A. (2016). Organizing an App Inventor Summer Camp for

- Middle School Girls: What the Experts Don't Tell You. *Information Systems Education Journal*, 14(5), 80-90.
- Green, D.T. & Martin, N.L. (2016). Attributes of Data Breach Notification Laws in the United States. *Issues in Information Systems*, 17(1), 107-118.
- Martin, N.L., Imboden, T., & Green, D.T. (2015). HIPAA Security Rule Compliance in Small Healthcare Facilities: A Theoretical Framework. *Issues in Information Systems*, 16(1), 180-188.
- Soares, A., Fonseca, F., & Martin, N.L. (2015). Teaching Introductory Programming with Game Design and Problem-Based Learning. *Issues in Information Systems*, 16(3), 128-137.
- Soares, A. & Martin, N. (2015). Teaching Non-Beginner Programmers with App Inventor: Survey Results and Implications. *Information System Education Journal*, 13(5), 24-36.
- Martin, N.L. (2015). IT0: Discrete Math and Programming Logic Topics as a Hybrid Alternative to CS0, *Information Systems Education Journal*, 13(1), 30-44.
- Woodward, B., Imboden, T., and Martin, N.L. (2013). An Undergraduate Information Security Program: More than a Curriculum, *Special Issue on Global Information Security and Assurance in IS Education, Journal of Information Systems Education*, 24(1), 63-70.
- Martin, N. L., Woodward, B. (2013). Building a Cybersecurity Workforce with Remote Labs. *Information Systems Education Journal*, 11(2), 57-62.
- Legier, J., Woodward, B., Martin, N. L. (2013). Reassessing the Skills Required of Graduates of an Information Systems Program: An Updated Analysis. *Information Systems Education Journal*, 11(3), 79-89.
- Martin, N.L. & Woodward, B. (2011). Computer Ethics of American and European Information Technology Students: A Cross-Cultural Comparison. *Issues in Information Systems*, 12(1), 78-87.
- Woodward, B., Martin, N.L., Imboden, T. (2011). Expansion and Validation of the PAPA Framework. *Information Systems Education Journal*, 9(3), 28-34.
- Martin, N.L. (2010). Introducing Business Method Patents into the IS Curriculum. *Issues in Information Systems*, 11(2), 66-71.
- Martin, N.L. & Green, D.T. (2010). Has Your Patent Strategy Been "Bilskied"? Challenges Facing Software Based Business Method Patents. *Issues in Information Systems*, 11(2), 640-643.
- Martin, N. L. & Mykytyn, P.P. (2010). Business Method Patents and Sustained

Competitive Advantage. *Journal of Computer Information Systems*, 50(4), 88-96.

Martin, N.L. & Mykytyn, P.P. (2009). Evaluating the Financial Performance of Business Method Patent Owners. *Information Systems Management*, 26(3), 285-301.

Green, D. T., Martin, N. L., & Pearson, J. M. (2007). Tech Ties: Making Online Connections in Social Networks. *International Journal of Web Based Communities*, 3(4), 460-467.

Martin, N. L., Pearson, J. M., & Furumo, K. (2007). IS Project Management: Size, Practices and the Project Management Office. *Journal of Computer Information Systems*, 47(4), 52-60.

Martin, N.L., Green, D.T., & Furumo, K. (2006). Exploring Web User Styles in B2C E-Commerce. *International Journal of Electronic Marketing & Retailing*, 1(2), 115-131.

Furumo, K.A., Pearson, J.M., & Martin, N.L. (2006). Do Project Management Tools and Outcomes Differ in Organizations of Varying Size and Sector? *Interdisciplinary Journal of Information, Knowledge and Management*, 1, 23-36.

## **B. Published Proceedings**

Martin, N. (2020). An Academic Profile of IT Program Leadership in the U.S. In *Proceedings of ACM SIGITE conference (SIGITE'20), October 7–9, 2020, Virtual Event, USA*. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3368308.3415368>

Rahimi, N. & Martin, N. (2020). Challenges and Strategies for Online Teaching in Information Technology and Other Computing Programs In *Proceedings of ACM SIGITE conference (SIGITE'20), October 7–9, 2020, Virtual Event, USA*. ACM, New York, NY, USA.

Sharp, K., Woodward, B., & Martin, N. (2020). Ethics Assessed: An interdisciplinary effort to develop standards for automated learning assessment in IT courses. In *Proceedings of ACM SIGITE conference (SIGITE'20), October 7–9, 2020, Virtual Event, USA*. ACM, New York, NY, USA.

Martin, N. (2019). Designing the IT Capstone Course: A Systematic Literature Review. *SIGITE '19, Proceedings of the 20th Annual SIG Conference on Information Technology Education*. p. 102. ACM Digital Library. <https://doi-org.proxy.lib.siu.edu/10.1145/3349266.3351346>.

Fiorentino, S.R., Imboden, T., Martin, N.L., & Phillips, J. (2017). Nonprofits and Information Security: The Legal Mandate for Implementing a Comprehensive

Information Security Plan. *Proceedings of the Northeastern Association of Business, Economics and Technology Conference*. State College, PA.

Imboden, T.R., Martin, N.L., Woodward, B.S., Wood, M.E., & Goodman, J. (2015). Cyber Security Day: Creating a Mock Cyber Competition Event to Increase Student Interest in Cyber Security. *EDSIG Conference on Information Systems and Computing Education*. Wilmington, NC.

Martin, N.L. & Imboden, T.R. (2014). Information Security and Insider Threats in Small Medical Practices. Poster presented at the *Twentieth Americas Conference on Information Systems*. Savannah, GA.

Imboden, T., Martin, N., Woodward, B, Nehrkorn, P. (2014). Evaluating Information Security Practices, Knowledge, and Attitudes of Information Technology Student Workers (Abstract). *Information Systems Education Conference*. Baltimore, MD.

Imboden, T., Martin, N., Seib, J.D. & Phillips, J. (2012). Student Opinion on the Use of Virtual Machines in Security Education. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 3655-3660). Chesapeake, VA.

Martin, N.L. & Woodward, B. (2011). Will They or Won't They? Exploring Ethical Judgment, Gender, Age, Geographic Region and Behavioral Intent. *Information Systems Education Conference*, Wilmington, NC.

Woodward, B., Martin, N., & Imboden, T. (2010). Expansion and Validation of the PAPA Framework. *Information Systems Education Conference*, Nashville, TN.

Martin, N.L. and Green, D.T. (2009). A Resource Based View of Business Method Patents. *Fifteenth Americas Conference on Information Systems*. San Francisco.

Nelson, H.J., Ahmad, A., Martin, N.L., & Litecky, C.R. (2007). A Comparative Study of IT/IS Job Skills and Job Definitions. *SIGMIS-CPR*, St. Louis.

Martin, N.L. & Mykytyn, P.P. (2006). Business Method Patents: Do Owners Gain/Sustain Competitive Advantage? *International Conference on Information Systems*, Las Vegas.

Martin, N.L. (2005). The Influence of National Culture on Strategic Information Systems Planning in Small and Medium Size Enterprises. *36th Annual Meeting of the Decision Sciences Institute*. San Francisco.

Martin, N.L., Furumo, K.A., & Pearson, J.M. (2005). IS Project Management: Size, Complexity, Practices and the Project Management Office. *38th Hawaii International Conference on Systems Science*. Big Island, Hawaii.

Martin, N.L., Furumo, K.A., & Pearson, J.M. (2004). Project Management in IS: Fit Matters. *Tenth Americas Conference on Information Systems*. New York.

Rahman, M., Martin, N.L., Paul, S. (2003). Data Mining, Group Memory and Group Decision Making: A Theoretical Framework. *Ninth Americas Conference on Information Systems* Tampa, Florida.

### **C. Book Chapters**

Martin, N.L. & Soares, A. (2016). The introductory programming course: A gaming approach. In R. Queirós & M. Pinto (Eds.), *Gamification-based e-learning strategies for computer programming education*. Hershey, PA: IGI Global.

## **VI. TEACHING EXPERIENCE**

### **A. Teaching Interests and Specialties:**

Database design, management and administration, data analytics, systems analysis and design, project management, software engineering, information systems in healthcare, information systems strategy, information technology ethics, business and technical communication, statistics

### **B. Other**

Faculty, Study Abroad in Augsburg, Germany. Global Seminar: *Information Technology Ethics and Information Privacy: A Study of European and U.S. Practices*, 2014

Internships Supervised: 3

Independent Study Supervised: 15

Study Abroad Supervised: 6

CASA Research Symposium Student Projects: 5

Dissertation Committee Member for College of Business Ph.D. students: 3

## **VII. UNIVERSITY EXPERIENCE**

### **A. Department Committees:**

Chair, ISAT Curriculum Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2016-2019

Member, ISAT Assessment Committee, School of Information Systems and Applied Technologies, 2016-2019

Co-chair, ISAT Curriculum Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2015-2016

Member, ISAT Recruitment/Outreach Committee, School of Information Systems and Applied Technologies, 2014-2015

Chair, ISAT Curriculum Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2011-2013  
Member, ISAT Curriculum Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2010-2011  
Chair, ISAT Scholarship Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2010  
Member, ISAT Scholarship Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2009  
Member, Ad Hoc Committee on M.S. in Informatics, School of Information Systems and Applied Technologies, Southern Illinois University, 2009-2012  
Member, Comprehensive Campaign Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2008-2009  
ISAT Recruitment Committee, School of Information Systems and Applied Technologies, Southern Illinois University, 2007-2008

## **B. College and University Committees and Councils:**

### **College Level:**

Member, CASA Curriculum Committee, 2015-2019  
Member, CASA Teacher of the Year Committee, 2018-2019  
Member, Dean's Advisory Committee, 2014-2016  
Member, Tenure & Promotion Committee, 2015-2016  
Chair, CASA Honors Day Committee, Southern Illinois University, 2013  
Member, CASA Honors Day Committee, Southern Illinois University, 2011-2012  
Chair, CASA Research Paper of the Year Committee, Southern Illinois University, 2013  
Member, CASA Research Paper of the Year Committee, Southern Illinois University, 2010-2012

### **University Level:**

Member, Faculty Senate, 2012-2015, 2017-2019  
Member, Faculty Senate Budget Committee, 2017-2019  
Co-chair, Faculty Senate Governance Committee, 2014 – 2015  
Member, Faculty Senate Committee on Committees, 2014 – 2015  
Member, Faculty Senate Governance Committee, 2012-2013  
Member, Undergraduate Teaching and Curriculum Committee, 2012 - 2013  
Member, Faculty Senate Faculty Status and Welfare Committee, Southern Illinois University, 2011-2012  
Member, University Bookstore Advisory Council, Southern Illinois University, 2009-2011

## VIII. PROFESSIONAL SERVICE

### A. Membership in Professional Associations:

Association for Information Systems, 2003-present  
AIS Special Interest Group for Health Information Systems (SIGHealth), 2014-present  
AIS Special Interest Group for Information Security (SIGSec), 2015-present  
Association for Computing Machinery, 2005-present  
ACM Special Interest Group for Information Technology Education (SIGITE), 2015-present  
National Center for Women & Information Technology, 2011-present  
International Association for Computer Information Systems, 2009-present  
Association of Information Technology Professionals, 2009-present  
AITP Education Special Interest Group (EDSIG), 2009-present  
Decision Sciences Institute, 2004-2007  
Project Management Institute, 2003-2007

### B. Consultantships:

Eastern Michigan University, Best Practices for Teaching Quantitative Courses Online,  
October 16, 2015

### C. Evaluation of Manuscripts for Journals and Book Publishers and of Grant Proposals for Agencies:

Editorial Board, Prospect Press Publishing 2019-present  
Reviewer, Prospect Press Publishing, 2018-2019  
Chair, Health Information Privacy and Security mini-track, Healthcare Informatics and Information Technology (SIGHealth) track, Americas Conference on Information Systems, 2016, 2017, 2018  
Editorial Board, *Journal of Computer Information Systems*, 2011-present  
Editorial Board, *Journal of Internet Commerce*, 2006-present  
Reviewer, *Journal of Information Systems Education*, 2011-present  
Reviewer, *Information & Management*, 2014  
Reviewer, *Journal of Internet Commerce*, 2004-2006  
Reviewer, *Journal of e-Collaboration*, 2005  
Session Chair and Reviewer, EDSIG Conference, 2015  
Session Chair and Reviewer, Information Systems Education Conference, 2010-2014  
Session Chair and Reviewer, International Association for Computer Information Systems, 2010-2011  
Session Chair and/or Reviewer, Americas Conference on Information Systems, 2004, 2009, 2014  
Reviewer, Hawaii International Conference on Systems Science, 2008  
Reviewer, International Conference on Information Systems, 2007  
Reviewer, Annual Meeting of the Decision Sciences Institute, 2004

**D. Other:**

Program Evaluator, ABET Computing Accreditation Commission for Information  
Technology and Information Systems, 2016-present

Workshop Leader, Expanding Your Horizons Conference, Southern Illinois University,  
2011, 2014, 2015

Judge, Undergraduate Research Forum, Southern Illinois University, 2014

Camp Director, Create Your Own Android App Camp, June 5-7, 2013

Camp Director, Create Your Own Android App Day Camp, February 20, 2016