

DR. PETTER LOVAAS

Curriculum Vitae

EDUCATION

- D.Sc. in Information Systems** May 2010
Specialization in Information Assurance and Computer Security
Dakota State University, Madison, SD
- M.S in Information Assurance** May 2006
Specialization in Banking and Financial Security
Dakota State University, Madison, SD
- B.S. in Information Technology Management,** August 2004
Specialization in System Administration
University of Minnesota, Crookston, MN

EMPLOYMENT

- Niagara University, Niagara University, Lewiston, NY*** 2016-Current
— Associate Professor, Director CIS Graduate Studies
- Managing and coordinating the Information Security and Digital Forensics Graduate Program
 - Teaching undergraduate and graduate courses for the Department of Computer & Information Sciences (CIS)
 - Advising both graduate and undergraduate students
 - Serve on committees
 - Curriculum development for the new CIS classes and ISDF courses
 - Manage two Information Security labs
 - Further develop my research agenda in information security and digital forensics
- Niagara University, Niagara University, Lewiston, NY*** 2010-2016
— Assistant Professor, Computer & Information Sciences
- Teaching undergraduate classes for the Department of Computer Information Sciences (CIS)
 - Advise CIS students in their undergraduate program
 - Serve on committees
 - Curriculum development for the new CIS classes
 - Director of the MS in Information Security and Digital Forensics
 - Coordinator of the Computer Crime minor
 - Faculty advisor NU Cyber Security Club
 - Function as Chair of the department during summers and other periods

Dakota State University, Madison, SD— Graduate Teaching Assistant 2004-Current

- Teach classes for the University, both undergraduate and graduate
- Develop client-side security software for PeopleSoft which extracted critical security information from PeopleSoft to the client software, creating warnings and security summaries
- Design a comprehensive security awareness program that assists banks in rural South Dakota with their security awareness training efforts. The project was funded by a Small Business Innovation Research (SBIR) seed grant

Secure Banking Solutions LLC, Madison, SD — Security Consultant 2007 – Fall 2009

- Assisting and consulting with banks and financial institutions to ensure regulatory compliance in the Information Security area
- Key services includes of Risk Management, Information Technology Audits, Emergency Preparedness, System Security, Firewall and Intrusion Prevention Management
- Assisting banks in completing successful federal regulatory exams
- Improving the institutions overall information security posture

Dakota State University, Madison, SD – Help Desk Coordinator 2004-2005

- Helped launch a campus-wide Tablet PC program, supplying students and faculty with Tablet PCs
Provided troubleshooting, restore/repair and other technical support for both hardware and software problems

University of Minnesota, Crookston, MN — IT Professional Summer 2004

- Worked with PeopleSoft and Data Warehouse at Admissions Office to ensure the university provided accurate information and enrollment figures
- Completed four training sessions for PeopleSoft—offered by the University of Minnesota, Twin Cities, including Student Records, Financial Databases, and Query training

University of Minnesota, Crookston, MN— Help Desk Staff 2002-2004

- Provided first-line support for faculty and students with their laptop computers
- Duties included troubleshooting technical and software issues, testing hardware, maintaining customer databases, user access to the domain and e-mail server

Instructed Courses

Course Number	Course Name	Institution
CIS 232	Micro Applications for Business	Niagara University
CIS 233	Using the Computer as a Research Tool	Niagara University
CIS 270	Computer Hardware	Niagara University
CIS 320	Networking	Niagara University

CIS 380	Database Management	Niagara University
CIS 485	Information Security	Niagara University
CIS 285/565	Computer Forensics I	Niagara University
CIS 385/585	Computer Forensics II	Niagara University
CIS 500	Information Security and Federal Regulations	Niagara University
CIS 510	Data Privacy	Niagara University
CIS 520	Risk Management	Niagara University
CIS 530	Ethical Hacking	Niagara University
CIS 540	Network Security	Niagara University
CIS 595	Mobile Forensics	Niagara University
CIS 600	Thesis	Niagara University
CIS 601	Thesis	Niagara University

PEER-REVIEWED PAPERS/PUBLICATIONS

A. Moreno, P. Lovaas (2018) *Internet of Things: Data Privacy and Cyber-Security Implications*, Annual Symposium on Information Assurance, June 5-6, 2018

C. Monroe, P. Lovaas (2018) *Securely Moving Forward with Serverless Architecture*, Annual Symposium on Information Assurance, June 5-6, 2018

D. Makowski, Y. Tong, P. Lovaas (2017) *Security Challenges and Improvements for Implantable Medical Devices*, Annual Symposium on Information Assurance, June 7-8, 2017

M. Kuntz, Y. Tong, P. Lovaas (2017) *Challenges and Strategies for Malware Analysis for Incident Response and Prevention*, Annual Symposium on Information Assurance, June 7-8, 2017

P. Lovaas, S.C. Wagner (2014). An Innovative Approach to Information Security and Digital Crime Interdisciplinary Studies. *The Proceedings of the Information Systems Education Conference*, v.31 n.3201, Baltimore, Maryland

P. Lovaas. A Comprehensive Risk based Auditing Framework for Small and Medium Sized Financial Institutions, Annual Symposium on Information Assurance, June 3-4, 2014, Albany, NY

P. Lovaas. *Facts and Myths in Protecting the Cloud, Editorial*. Journal of Computer Engineering and Information Technology, published July 28, 2012, ISSN: 2324-9307.

Petter Lovaas

P. Lovaas, S.C. Wagner. *IT Audit Challenges for Small and Medium-Sized Financial Institutions*, Annual Symposium on Information Assurance, June 5-6, 2012, Albany, NY

S.C. Wagner, S. Garippo, P. Lovaas. *A Longitudinal Comparison of Online Versus Traditional Instruction*, Journal of Online Learning and Teaching, March 2011 Issue.

P.Lovaas. *Introduction to Criminal Justice, Chapter 14 – Criminal Justice in the 21st Century*. Kendall Hunt Publishing, 2012.

P. Lovaas. *A Comprehensive Risk-Based IT Audit Framework for Small- and Medium- Sized Financial Institutions*, International Association for Computer Information Systems, September 30-October 3, 2009, Pittsburgh, PA

P. Lovaas and K. Streff. *A Comprehensive Information Technology Audit Framework for Small- and Medium-Sized Financial Institutions*, Hawaii International Conference on Business, June 12-15, 2009, Honolulu, HI

K. Streff and P. Lovaas. *A Progressive Information Security Management Model for Small- and Medium-Sized Financial Institutions*, Hawaii International Conference on Business, June 12-15, 2009, Honolulu, HI.

Podhradsky, A., Streff, K., Engebretson, P., Lovaas, P. *An Innovative Information Technology Risk Assessment Model for Small and Medium-Sized Financial Institutions*, Hawaii International Conference on Business, June 12-15, 2009, Honolulu, HI

P. Lovaas. *A Comprehensive Information Technology Risk Assessment Audit Framework for Small- and Medium-Sized Financial Institutions*, Midwest United States Association for Information Systems (MWAIS), May 22-23, 2009, Madison, SD

K. Streff and P. Lovaas. *A Case Study of Information Security Awareness in the Food Industry*, Hawaii International Conference on Business, May 24-27, 2007, Honolulu, HI

K. Streff and P. Lovaas. *The Development of an Information Assurance Awareness Assessment Instrument*, Midwest United States Association for Information Systems (MWAIS), May 18-19, 2007, Springfield, IL

PRESENTATIONS

Presented at the Learning for Life Mixer, Niagara University in March 2011. Presented “Information Security for You”

Presented at the College of Business, Niagara University in April 2011. Presented “Information Security Governance”

Presented at the International Association for Computer Information Systems in October 2009. Presented “A Comprehensive Risk-Based IT Audit Framework for Small- and Medium- Sized Financial Institutions”

Presented at the International Conference on Business in June 2009. Presented “A Comprehensive Information Technology Audit Framework for Small- and Medium-Sized Financial Institutions”

Presented at the Midwest Association for Information Systems in May 2009. Presented “A Comprehensive Information Technology Risk Assessment Audit Framework for Small- and Medium-Sized Financial Institutions”

Presented at the Annual Center of Excellence Symposium in April 2009. Presented "An Innovative Information Technology Risk Assessment Model for Small and Medium-Sized Financial Institutions”

SERVICE

Activity	Description	Location	Dates
<i>Master Planning Committee Member</i>	University Planning committee responsible for all projects and capital requests for the University	Niagara University	2016-Current
<i>Curriculum Development</i>	Created the ISDF program and associated 12 courses including NYS application	Niagara University	2015-Current
<i>Director</i>	CIS Graduate Studies	Niagara University	2016- Current
<i>Faculty Mentor</i>	CIS student research	Niagara University	2012
<i>Webmaster</i>	ISDF Department Webmaster	Niagara University	2011 - Current
<i>College of A&S Chairs meeting</i>	Designated representative for the CIS department in the A&S Chairs meetings	Niagara University	2011 - Current
<i>Faculty Advisor</i>	Advising CIS majors	Niagara University	2010 - Current
<i>Faculty Representative</i>	Responsible for managing all CIS student Internships and Coops	Niagara University	2011 - Current
<i>Student Conduct Council</i>	Serving as a member hearing student cases related to misconduct of University policy and procedure	Niagara University	2010 - Current
<i>Vincentian Online Database</i>	Designed and coordinated work on the Vincentian catalogue bringing its contents online. The project involved designing a new interface, designing the database and managing the project	Rome, Italy	2011 - 2012
<i>Acting Summer Chair</i>	Served as the acting Summer Chair	Niagara University	2011
<i>Curriculum Development</i>	Assisted the CIS department in restructuring the major. Designed four new courses	Niagara University	2010 - Current
<i>Coordinator "Green Team" (Business Injects)</i>	The Collegiate Cyber Defense Competition to be held at Dakota State University, March 5-6, 2010	Dakota State University	2010
<i>Session Chair</i>	International Conference on Information Systems, Pittsburgh, PA	Pittsburgh, PA	2010
<i>Committee Member</i>	Course Development for the Network Administration major, Dakota State University, Madison, SD	Dakota State University	2009 - 2010

<i>Student Representative</i>	Faculty Search and Screening Committee, Dakota State University, SD	Dakota State University	2009
<i>Session Chair</i>	Hawaii International Conference on Business, Honolulu, HI	Honolulu, HI	2009
<i>Coordinator</i>	Registration Coordinator, Midwest Association for Information Systems, Madison, SD	Dakota State University	2009

GRANTS

- Awarded \$271,000 for ISDF Development New York State 2016, Niagara University
- Awarded \$5000 **Summer Research Stipend** for 2012, Niagara University.
- Awarded \$1500 **Research Support Grant** for 2011. Grant was awarded to support Computer Forensics research and equipment needed, CIS Department, Niagara University.
- Awarded \$20000 **Capital Request** for 2011. Award included a new CIS Computer Security Lab. Responsible for setting up and configuring the lab for the CIS Department, Niagara University.
- Awarded \$700 **Improvement in Teaching Grant for 2010**. Attended the Techno Forensics Annual Conference at the NIST center in Washington DC, Niagara University.
- Awarded \$1000 **Faculty Research Initiative Award** for 2009. Research included the development of a standardized information technology audit process for small- and medium- sized financial institutions, Dakota State University.
- Awarded \$500 **Student Research Initiative Grant** for 2005-2006. Research included the development of a phishing scam utilizing readily available software for demonstration purposes, Dakota State University.
- Assisted in Application for **SBIR Phase 0** Grant, 2005. This grant was intended to develop a comprehensive security awareness training tool, designed to cater the financial sector, Dakota State University.
- Awarded \$4500 **Small Business Innovation Research (SBIR)** seed grant for summer 2005. Initiated the development of a security awareness tool for banks and financial institutions. The project included development of content for this tool, Dakota State University.

HONORS

- Awarded “Best Paper” for the 4th Annual MWAIS Conference, Madison, SD, 2009
- Poster Session for South Dakota Legislators in Pierre, SD, 2006. Presented on Phishing Scams