

**Ashley L. Podhradsky, D.Sc**  
**Associate Professor Information Assurance and Digital Forensics**  
**Coordinator of MS Information Assurance and Computer Security**  
**Co-Founder CybHER**  
**Director of GenCyber Girls in CybHER Security**

**Dakota State University**  
(215) 275-6214  
Ashley.Podhradsky@dsu.edu

## Education

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Dakota State University, Madison, South Dakota Doctor of Science in Information Systems Specialized in Information Assurance and Computer Security 3.9 GPA	2010
Dakota State University, Madison, South Dakota Master of Science in Information Systems Specialized in Network Security 3.9 GPA	2007
Dakota State University, Madison, South Dakota Bachelor of Science in Electronic Commerce and Computer Security Minors: Business Administration, Computer Information Systems, Networking and Security	2006

## Research Interests

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- Digital Forensics in emerging devices
- Data Privacy – specifically residual data remnants on retired sanitized disks
- Risk Management for small to medium sized regulated industries
- Insider threats- specifically how to mitigate activities with a proactive approaches
- Increasing diversity in cyber security, finding ways to increase female participation

## Career History – Industry & Academia

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Dakota State University, Madison, South Dakota Associate Professor of Information Assurance and Digital Forensics	2012-Current
<ul style="list-style-type: none"><li>• Promoted to tenured associate professor in fall 2016</li><li>• Teach courses and conduct research in the areas of computer security, information assurance and cyber security, &amp; computer forensics.</li><li>• Develop curriculum in digital forensics, computer security, and cyber security</li><li>• Sample of Courses Taught: CIS 245, Information Security Fundamentals, CSC 388 Computer Forensics, CSC 418 Advanced Computer Forensics, INFA 720 Incident Response, INFA 721 Computer Forensics, CSC 807 Cyber Security Research</li></ul> Program Coordinator of Masters of Science in Information Assurance and Computer Security	

Dr. Ashley L Podhradsky

- Work directly with Dean of Graduate Programs to manage program including faculty teaching assignments, student recruitment, advertising, and curriculum
  - Lead admissions graduate program committee and admissions committee
- Founder and Co-Chair of Cyber Security Industry Advisory Board
- Coordinate bi-annual meetings with industry partners to advise Cyber Operation and Network Security program on curriculum, industry trends, and work to increase opportunities for students
- Drexel University, Philadelphia, Pennsylvania 2012-2016  
Adjunct Professor of Computing and Security Technology
- Teach courses and develop curriculum in the areas of computer information system and computer security, cyber security, specifically computer forensics.
- BK Forensics, Philadelphia, Pennsylvania 2011-2013  
Digital Forensics Training Coordinator/ Director
- Coordinate course development and updates, including materials (PowerPoint slides, practical/lab exercises, and course books)
  - Coordinate beta-training
  - Conduct instructor evaluations
  - Handle helpdesk for instructors during training sessions
  - Intermittent teaching of classes
- Drexel University, Philadelphia, Pennsylvania 2010-2012  
Assistant Professor of Computing and Security Technology, Tenure Track
- Teach courses and conduct research in the areas of computer information system and computer security, cyber security, specifically computer forensics.
  - Develop curriculum in digital forensics, computer security, and cyber security
  - Explore the process of ABET accreditation for the CST program
  - Represent the CST program for the Middle States 5 year review
  - Worked on the inaugural Industry Advisory Board for the CST Program
  - Courses Developed: CT 100 Computer Hardware, CT 212 Computer Forensics, CT 120 Computer Software, CT 213 Forensics Data Recovery
- Dakota State University, Madison, South Dakota 2008-2010  
Instructor of Computer Information Systems and Computer Science
- Teach courses and conduct research in the areas of computer information system and computer science, specifically computer and network forensics.
  - Courses Taught: CIS 350 Computer Hardware, Networking and Telecommunications, CIS 388 Computer Forensics, CIS 418 Advanced Computer Forensics, CIS 432 Anti-Forensics, and CIS 434 Portable Media Forensics
  - Courses Developed: CIS 350 Computer Hardware, Networking and Telecommunications, CIS 388 Computer Forensics
- Dakota State University, Madison, South Dakota 2007-2008  
Graduate Teaching Assistant
- Computer Science \ Computer Information Systems: Teach and conduct research in Computer Information Systems and Information Assurance for undergraduate programs
  - Courses Taught: CIS 350 Computer Hardware, Networking and Telecommunications, CSC 206 Access, CSC 206 Excel, CSC 206 SharePoint, CIS 388 Computer Forensics, CIS 418 Advanced Computer Forensics

- Co-Taught a OneNote 2007 Seminar
- Flandreau Santee Sioux Tribe, Flandreau, South Dakota 2005-2006  
Information Technology Support Specialist
- Troubleshoot computers, laptops, network issues, hardware, software, projectors, and point of sales machines
  - Supported VoIP infrastructure
  - Developed new hire information technology eight week training program
  - Performed daily, monthly and yearly backups of all servers
  - Implemented a WSUS server to automate the update process of personal systems and servers
  - Upgrade workstation and servers
  - Administer Active Directory
- Dakota State University, Madison, South Dakota 2002-2006  
Help Desk Technician
- Assisted faculty, staff and students in technology related issues
  - Troubleshoot hardware, software and networking issues
  - Supported 1800+ laptop environment

## Selected Refereed Journal and Conference Proceedings Publications

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1. Casey, **Podhradsky** (2016). "Steganography and the Xbox: How Terrorist May Be Hiding in Plain Sight." Conference on Digital Forensics, Security and Law. Daytona, FL. May, 2016
2. Miller, Stroschein, **Podhradsky** (2016). "Reverse Engineering a NIT That Unmasks TOR Users." Conference on Digital Forensics, Security and Law. Daytona, FL. May, 2016
3. **Podhradsky**, LeBlanc, Bartolacci (2014). "Personal Denial of Service Attacks (PDOS) and Online Misbehavior: The Need for Cyber Ethics and Information Security Education on University Campuses. *Journal of Cyber Security* Vol 3 No 3. Page 1-18.
4. Bartolacci, Leblanc, **Podhradsky** (2014). "Personal Denial of Service (PDOS) Attacks: A Discussion and Exploration of a New Category of Cyber Crime. *Journal of Digital Forensics, Security and Law*. Vol 9. No 1. Page 19-36.
5. **Podhradsky**, Higgins (2014). "The Current State of Modern Mobile Media and its Impact on the Digital Forensics Community: An Analysis of Smart Phones and Tablets." Hawaii International Conference on Business. Honolulu, HI.
6. Engebretson, **Podhradsky** (2013). "Security Analysis of Xbox 360 Vulnerabilities" 17th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2013), Orlando, USA.
7. **Podhradsky**, D'Ovidio, Engebretson, Casey (2013). "Xbox 360 Hoaxes, Social Engineering, and Gamertag Exploits." *Hawaii International Conference on System Science*. Maui, HI.
8. **Podhradsky**, Casey, Ceretti (2012). "The Bluetooth Honeytrap Project: Measuring and Managing Bluetooth Risks in the Workplace." *The International Journal of Mobile Network Design and Innovation*.
9. **Podhradsky**, D'Ovidio, Casey (2012). "The Xbox 360 and Steganography: How Criminals and Terrorists could be "Going Dark." *The Conference on Digital Forensics, Security and Law*. May 2012. Richmond, VA.
10. **Podhradsky**, Kelley (2012). "Analyzing the Impact that Idle Garbage Collection has on Solid State Drives in Windows and UNIX Platforms." *The Security Conference*. May 2012, Las Vegas, NV.
11. **Podhradsky**, Casey, Ceretti (2012). "Managing Bluetooth Risks in the Workplace." Wireless Telecommunications Symposium (WTS). April, 2012. London, UK. In Press. IEEE.

12. **Podhradsky**, Casey, Ceretti (2012). "The Bluetooth HoneyPot Project." Wireless Telecommunications Symposium (WTS). April, 2012. London, UK. In Press. IEEE.
13. **Podhradsky**, Streff. (2011): "Testing Data Sanitization Practices of Retired Drives with the Digital Forensics Data Recovery Project. *Journal of Information Privacy and Security*. Ivy League Publication. ISSN 1553-6548, 09/2011, Volume 7, Issue 3, p. 46
14. **Podhradsky**, D'Ovidio, Casey. (2011): "Identity Theft and Used Gaming Consoles- Recovering Personal Information from Xbox 360 Hard Drives." Proceedings of the America's Conference on Information Systems. Paper 54. August, 2011, Detroit, MI, ISBN 978-0-615-50707-1 [http://aisel.aisnet.org/amcis2011\\_submissions/54/](http://aisel.aisnet.org/amcis2011_submissions/54/)
15. **Podhradsky**, D'Ovidio, Casey (2011). "The Practitioners Guide to the Forensic Investigation of Xbox 360 Gaming Consoles." The Conference on Digital Forensics, Security, and Law (ADFSL). May, 2011, VA. ISSN 1931-7379 pp 173-191
16. **Podhradsky** (2011). "Data Sanitization: The Forgotten Aspect of Information Security." *The Security Conference*. May 2011, Las Vegas, NV.
17. **Podhradsky**, Streff, Pauli, and Engebretson. (2011): "A Restructured Information Technology Risk Assessment Model for Small and Medium-Sized Financial Institutions." *Hawaii International Conference on Business (HICB 2011)*. May 2011, Honolulu, Hawaii, USA pp 206-219
18. **Podhradsky**, Engebretson, Streff, Lovaas. (2009): "An Innovative Information Technology Risk Assessment Model for Small and Medium-Sized Financial Institutions." *Hawaii International Conference on Business (HICB 2009)*. June 2009, Honolulu, Hawaii, USA pp 993-1003
19. Streff, **Podhradsky**, Lovaas. (2009): "A Progressive Information Security Program Model for Small and Medium-Size Financial Institutions." *Hawaii International Conference on Business (HICB 2009)*. June 2009, Honolulu, HI.
20. Lovaas, Streff, **Podhradsky** (2009): "A Comprehensive Information Technology Audit Framework for Small- and Medium-Sized Financial Institutions." *Hawaii International Conference on Business (HICB 2009)*. June 2009, Honolulu, HI. pp 898-906
21. Pauli, **Podhradsky**, Pauli, Moran (2009) "Computers for Humanity: A Service Learning Approach to Computer Education." *ISECON. November 2009, Washington, D.C.* pp 3542-3550. <http://proc.isecon.org/2009/3524/ISECON.2009.Pauli.pdf>  
\*Others available upon request, several others in progress

### Selected Refereed Research Artifacts

22. Ahmed, **Podhradsky**. "Review of Mobile Applications Used for Covert Communication." Midwest Association of Information Systems. Springfield, IL. May, 2017.
23. **Podhradsky**, D'Ovidio, Casey. "Analyzing Data Sanitization Practices of Key Industries." Poster Session of the America's Conference on Information Systems. August, 2011, Detroit, MI, ISBN 978-0-615-50707

### Selected Non-Refereed Publications and Research Artifacts

24. **Podhradsky**, Casey, D'Ovidio. "Steganography and the Xbox 360: Mapping Criminal and Terrorist Activities." *Drexel University Research Day*. Poster Session. April, 2012
25. Casey, Ceretti, **Podhradsky**. "I Can Hear You Now - The Bluetooth HoneyPot Project." *Drexel University Research Day*. Poster Session. April, 2012
26. Kelley, **Podhradsky**. "Analyzing the Impact that Idle Garbage Collection has on Solid State Drives in Windows and UNIX Platforms." *Drexel University Research Day*. Poster Session. April, 2012
27. **Podhradsky**. "Xbox 360 Forensics." TRUST WISE. Carnegie Mellon University. Poster Session. June 2011.
28. Casey, **Podhradsky**, D'Ovidio. "XBOX 360 Forensics." *Drexel University Research Day*. Poster Session. April, 2011. (Computational and Modeling (Non-Bio) Winner).

29. **Podhradsky**, Casey. "The Digital Forensics Data Recovery Project." *Drexel University Research Day*. Poster Session. April, 2011.
30. Tuhinanshu, **Podhradsky**. "Forensically- Sound Insider Threat Tracking Systems (FITTS)." *Drexel University Research Day*. Poster Session. April, 2011.
31. **Podhradsky**, Casey, Lyn and Lugo. "Title: Is private browsing really private? Identifying Web browser risk." *SearchSecurity.com* June 2<sup>nd</sup>, 2011.
32. **Podhradsky**, Casey. "Security sandbox program: Defense-in-depth or layered vulnerabilities?" *SearchSecurity.com* March 17<sup>th</sup>, 2011.
33. **Podhradsky**, Casey. "Digital Forensic Challenges In A Cloud Computing Environment." *SearchCloudSecurity.com* February 11, 2011.
34. **Podhradsky**. "Data Sanitization Policy: How to Ensure Thorough Data Scrubbings." *SearchSecurity.com* January 24, 2011.

### **Selected Articles and On-Air News Stories with Direct Quotes - Comprehensive List Available upon Request**

1. "How to Protect Yourself from a Cyber Attack." June, 2017.  
<http://www.ksfy.com/content/news/How-to-protect-yourself-from-a-cyber-attack-431404513.html>
2. "How IP Addresses Led Investigators to Jim Sideras." May, 2017.  
<http://www.keloland.com/news/article/news/how-ip-addresses-lead-investigators-to-jim-sideras>
3. "Tracking a digital footprint: How long does your browsing history follow you?" May, 2017.  
<http://www.ksfy.com/content/news/Tracking-a-digital-footprint-How-long-does-your-browsing-history-follow-you-421827103.html>
4. "DSU hosts tech-savvy females." April, 2017.  
[http://www.dailyleaderextra.com/news/local/article\\_d5a6d0b0-208f-11e7-b009-57d0ffe6f18c.html](http://www.dailyleaderextra.com/news/local/article_d5a6d0b0-208f-11e7-b009-57d0ffe6f18c.html)
5. "Podhradsky is EmBe's Young Women of Achievement." March, 2017. Madison Daily Leader.
6. "Nine honored at Tribute to Women." March, 2017.  
<http://www.argusleader.com/story/news/2017/04/18/nine-honored-tribute-women/100465742/>
7. 65 Women, Men Nominated for 44<sup>th</sup> Annual Tribute to Women. March, 2017.  
<http://www.ksfy.com/content/news/65-women-men-nominated-for-44th-annual-Tribute-to-Women-416162683.html>
8. "Cyber Insecurity; Job Security." February, 2017. <http://www.keloland.com/news/article/featured-stories/eye-on-keloland-cyber-insecurity-job-security>
9. GenCyber Girls in CyberSecurity Camp Kicks off at DSU. June 2016.  
<http://www.ksfy.com/content/news/GenCyber-Girls-in-Cybersecurity-camp-kicks-off-at-DSU-Monday--383722951.html> GenCyber Girls in CyberSecurity Camp Kicks off at DSU. June 2016.  
<http://www.ksfy.com/content/news/GenCyber-Girls-in-Cybersecurity-camp-kicks-off-at-DSU-Monday--383722951.html>
10. Google, FBI, Facebook Present at DSU GenCyber Camp. June 2016.  
<http://www.argusleader.com/story/news/education/2016/06/15/google-fbi-speakers-present-dsu-gencyber-camp/85925738/>
11. AccessData to Teach Session on Digital Forensics at GenCyber. June 2016.  
<https://globenewswire.com/news-release/2016/06/07/846710/0/en/AccessData-to-Teach-Session-on-Digital-Forensics-at-GenCyber-s-2016-Cybersecurity-Camp-for-Girls.html>
12. Girls Key to Cracking Computer Workforce Code. June 2016.  
<http://www.argusleader.com/story/news/2016/03/03/girls-key-cracking-computer-workforce-code/81106394/>
13. All-Girls CyberSecurity Camp Underway. June 2016.  
<http://www.keloland.com/news/article/news/all-girls-cyber-security-camp-underway>
14. Girls GenCyber Camp kicks off at DSU in Madison. June 2016.  
<http://www.amazingmadison.com/2016/06/21/girls-gencyber-camp-kicks-off-at-dsu-in-madison/>
15. DSU Hosts GenCyber Camp Next Week. June 2016.  
<http://www.amazingmadison.com/2016/06/17/dsu-hosts-gencyber-camp-next-week/>
16. Facebook Security Director Attends GenCyber Girls Camp . June 2016.  
[http://www.dailyleaderextra.com/news/local/article\\_f75cf152-3725-11e6-9ab7-0f3db9798f51.html](http://www.dailyleaderextra.com/news/local/article_f75cf152-3725-11e6-9ab7-0f3db9798f51.html)
17. GenCyber Girls Camp June 20-24. June 2016.  
<https://dsu.edu/events/gencyber-girls-camp-june-20-june-24>

18. All-Girls Cyber Security Camp Underway: . June 2016.  
<http://www.keloland.com/news/article/news/all-girls-cyber-security-camp-underway>
19. Sanitizing Game Consoles Hard Drives Prevents Identity Theft  
<http://www.keloland.com/news/article/featured-stories/'sanitizing'-game-console-hard-drives-prevents-identity-theft>
20. DSU Using Hands-On Approach to Educate on Cyber Security  
<http://www.keloland.com/news/article/education/dsu-using-hands-on-approach-to-educate-on-cyber-security>
21. DSU Expanding Girls Hacker Camp  
<http://www.keloland.com/news/article/your-money-matters/dsu-expanding-girls-hacker-camp>
22. Podhradsky Keynote speaker at InfraGard  
<http://dsu.edu/news/podhradsky-keynote-speaker-at-infragard>
23. Cybersecurity Camp for Girls to be held in July  
<http://dsu.edu/news/cyber-security-camp-for-girls-to-be-held-in-july>
24. SDN Communications Invests in first-ever Girls in Cybersecurity camp at Dakota State University  
<http://dsu.edu/news/sdn-communications-invests-in-first-ever-girls-in-cybersecurity-camp-at-dak>
25. Girls Discover the Force with FemSTEM  
<http://dsu.edu/news/girls-discover-the-force-with-femstem>
26. AAUW Awards DSU grant to increase participation in STEM fields  
<http://dsu.edu/news/aauw-awards-dsu-grant-to-increase-female-participation-in-stem-fields>
27. Girls key to cracking the computer workforce code  
<http://www.argusleader.com/story/news/2016/03/03/girls-key-cracking-computer-workforce-code/81106394/>
28. 100 Girls Attend Cyber Security Camp at DSU  
<http://listen.sdpb.org/post/dakota-midday-100-girls-attend-cyber-security-camp-dsu#stream/0>
29. Feds bust through huge Tor-hidden child porn site using questionable malware  
<http://arstechnica.com/tech-policy/2015/07/feds-bust-through-huge-tor-hidden-child-porn-site-using-questionable-malware/>
30. Bitcoin: Paying For Crime  
<http://www.keloland.com/news/article/featured-stories/bitcoin-paying-for-crime>
31. Metadata Shows GPS Location on Photos Posted Online  
<http://www.keloland.com/news/article/featured-stories/metadata-shows-gps-location-on-photos-posted-online>
32. Smart Toys Smart Hackers  
<http://www.keloland.com/news/article/featured-stories/smart-toys-smart-hackers>
33. Cohen, Jen. "Cloud Computing Myths...BUSTED." SAP Business Innovation. July 2012.
34. Brandon, John. "Google Drive begs the question: Who owns your data in the Cloud?" CIO.com.  
[http://www.cio.com.au/article/423439/google\\_drive\\_begs\\_question\\_who\\_owns\\_your\\_data\\_cloud\\_/?fp=16&fpid=1](http://www.cio.com.au/article/423439/google_drive_begs_question_who_owns_your_data_cloud_/?fp=16&fpid=1)
35. Schrier, Jason. "Hackers Can Steal Credit Card Information From Your Old Xbox, Experts Tell Us."  
<http://kotaku.com/5897461/hackers-can-steal-credit-card-information-from-your-old-xbox-experts-tell-us>
36. Poremba, Sue. "Too many passwords? Let the cloud help you." SecurityNewsDaily. Feb 2012.  
<http://www.mnn.com/family/protection-safety/stories/too-many-passwords-let-the-cloud-help-you>
37. HP Business. "Cloud bursting—what every data center manager must know." HP Large Enterprise Business. Feb 2012. <http://h30458.www3.hp.com/US/US/ENT/1152818.html>
38. Purdy, Kevin. "How To Get The Most Out Of Google's Share Happy World. 31 Jan. 2012. Web. FastComany. <http://www.fastcompany.com/1812072/take-knowing-steps-into-googles-share-happy-world>.
39. Poremba, Sue M. "Is It Safe to Store Passwords in the Cloud?" Security News Daily. 31 Jan. 2012. Web. <http://www.technewsdaily.com/3710-passwords-cloud.html/>.
40. Poremba, Sue M. "Smartphones and Privacy: Are We All Overreacting?" Security News Daily. 20 Dec. 2011. Web. <http://www.securitynewsdaily.com/smartphones-and-privacy-are-we-all-overreacting-1434/>.
41. Lawton, Stephen. "A Mix of Sun and Clouds." SC Magazine. August 2011

42. Pell, Nicholas. "How to Protect Yourself From Hackers." Made Man. 18 Dec 2011. Web. <http://www.mademan.com/how-to-protect-yourself-from-hackers/>.
43. Coleman, Lauren DeLisa. "Strong Sales Expected in Cloud Computing." CNBC News. 13 Dec 2011. Web. <http://classic.cnbc.com/id/45657364/1/>.
44. Casciato, Julia. Students build, donate computers to local charity. The Drexel Triangle. 18 Nov 2011. Web. <http://thetriangle.org/2011/11/18/students-build-donate-computers-to-local-charity/>
45. Boatman, Nicole. "The Top 5 Cloud Vulnerabilities." Symantec. 10 July 2011. Web. [http://cybercrimenews.norton.com/articles/cloud\\_vulnerabilities/index.html](http://cybercrimenews.norton.com/articles/cloud_vulnerabilities/index.html).
46. Boatman, Nicole. "The Top 5 Cloud Vulnerabilities." HP. 21 July 2011. Web. [http://www.yoursecurityresource.com/hpdesktop/articles/cloud\\_vulnerabilities/index.html](http://www.yoursecurityresource.com/hpdesktop/articles/cloud_vulnerabilities/index.html).
47. Boatman, Nicole. "The Top 5 Cloud Vulnerabilities." Earthlink. 28 July 2011. Web. [http://www.earthlinksecurity.com/articles/cloud\\_vulnerabilities/index.html](http://www.earthlinksecurity.com/articles/cloud_vulnerabilities/index.html).
48. Clement, Chuck. DSU Students Assemble Computers for Habitat. Madison Daily Leader. 18 Nov 2009.

## Grants Funded- Compressive List of Submissions Available on Request

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- **Funded:** NSA/NSF GenCyber Girls in CybHER Security 2017  
Plan and host residential camp for middle school girls to learn about programming, networking and security.
  - Planned and executed the camp, led recruiting efforts, and worked with funding partners at the NSA.
  - The camp is June 25-29<sup>th</sup>, 2017. 120 middle-school girls from 16 different states1 year award  
Principle Investigator  
\$134,000
- **Funded:** NSA/NSF GenCyber: Girls in CyberSecurity. 2016  
Plan and host residential camp for middle school girls to learn about programming, networking and security.
  - Planned and executed the camp, led recruiting efforts, and worked with funding partners at the NSA.
  - The camp is June 20-24<sup>th</sup>, 2016. Budgeted for 125 girls, but over 220 have registered or preregistered. Secured industry partners for additional \$23,500 in private funds1 year award  
Principle Investigator  
\$129,000
- **Funded:** NSF- ADVANCE PLAN. South Dakota Working in STEM for Equity 2015  
(SD-WISE): A System, Institutional, and Individual Level Approach to Policy Change  
5 year project  
Institutional Principle Investigator  
\$749,873
- **Funded:** National Center for Women Information Technology (NCWIT) 2015  
Outreach Award  
Funds to purchase equipment to perform outreach activities for middle school girls  
\$5000
- **Funded:** American Association of University Women 2015  
Award to increase participation for underrepresented populations in computing  
\$5000
- **Funded:** NSA/NSF GenCyber: Girls in Cybersecurity 2015  
Camp Director of GenCyber: Girls in Cybersecurity. [www.gencybergirls.camp](http://www.gencybergirls.camp). A camp focused on introducing 8<sup>th</sup>-12<sup>th</sup> grade girls about cybersecurity (programming, networking, cybersecurity).

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- Planned and executed the camp, led recruiting efforts, and worked with funding partners at the NSA.
- The camp is July 19<sup>th</sup>-24<sup>th</sup>, 2015. Budgeted for 60 girls, but over 180 girls have registered or preregistered. Secured industry partner to increase enrollment from 60 to 100

Principle Investigator

\$78,959

- **Funded** SD Board of Regents Performance Improvement Fund 2012  
Principle Investigator  
Developing research to forensically investigate the Xbox platform for criminal and misuse activity. Several seminal papers were published in high level journals/conferences.  
\$75,037
- **Funded** Faculty Research Initiative (FRI), DSU 2012  
\$2000
- **Funded** DSU Faculty Research Initiative. Digital Forensics Data Recovery 2009  
\$1000
- **Funded** research grant for Digital Forensics Data Recovery Project- PI 2008  
Dakota State University's Center of Excellence in Computer Information System  
\$1000
- **Funded** research grant for Digital Forensics Data Recovery Project -PI 2008  
National Center for the Protection of the Financial Infrastructure  
\$1000
- **Awarded** Graduate Teaching and Research Assistant Award 2007  
Two-third reduced tuition and \$30,000 stipend with 3% annual increase  
\$72,662

## Courses Taught \ Developed\*

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- Dakota State University
  - CSC 807 Cyber Security Research\*
  - INFA 721 Computer Forensics\*
  - INFA 741 Introduction to Banking
  - INFA 720 Incident Response\*
  - CIS 418 Advanced Computer Forensics \*
  - CIS 388 Computer Forensics \*
  - CIS 350 Computer Hardware, Networking and Telecommunications
  - CIS 328 Operating Environments
  - CIS 245 Information Security Fundamentals\*
  - CIS 130 Visual Basics Programming
  - CIS 105 Introduction to Computing
  - Dozens of independent study sections to help students progress through program
- Drexel University
  - CT 418 Senior Project 2
  - CT 400 Intrusion Detection
  - CT 388 Senior Project 1
  - CT 340 OS Architecture
  - CT 336 VPN Technology
  - CT 325 OS Security Architecture
  - CT 214 Advance Computer Forensics
  - CT 212 Computer Forensics \*



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- CT 140 Computer Networking
- CT 120 Computer Software
- CT 100 Computer Hardware \*
- Over 30 credits of Independent Study Courses in two years

## Committee Involvements \ Service to Program, College, University, and Discipline

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### Service to Discipline

- Reviewer for Advances in Security Education, USENIX. 2017
- REU Mentor- Using digital forensics to investigate buying of counterfeit goods 2017  
South Dakota School of Mines and Technology – SPACT  
Dakota Ewing
- IEEE Security and Privacy Symposium Workshops 2017  
Publication Co-Chair with Gabriella Ciocarlie of SRI  
Appointed by Mark Gondre, Workshop Chair
  - Worked with Chair to coordinate the submission of papers of accepted authors and Conference Publishing Services to ensure all papers were submitted correctly and appear in proceedings and IEEE Xplor
- IEEE Security and Privacy Symposium Workshops Euro 2017  
Publication Chair  
Appointed by Bruno Blanchet, General Chair
  - Worked with Chair to coordinate the submission of papers of accepted authors and Conference Publishing Services to ensure all papers were submitted correctly and appear in proceedings and IEEE Xplor
- IEEE Security and Privacy Symposium Workshops 2016  
Publication Co-Chair with Gabriella Ciocarlie of SRI  
Appointed by Michael Lochasto, General Chair
  - Worked with Chair to coordinate the submission of papers of accepted authors and Conference Publishing Services to ensure all papers were submitted correctly and appear in proceedings and IEEE Xplor
- IEEE Security and Privacy Symposium 2015  
Publication Co-Chair with Michael Butler of University of Florida  
Appointed by Cynthia Irving of Naval Postgrad, Workshop Chair
  - Worked with Chair to coordinate the submission of papers of accepted authors and Conference Publishing Services to ensure all papers were submitted correctly and appear in proceedings and IEEE Xplor
- IEEE Security and Privacy Workshops 2014  
Publication and Awards Chair Appointed by Jean Camp of Indiana, Workshop Chair
  - Worked with Chair to coordinate the submission of papers of accepted authors and Conference Publishing Services to ensure all papers were submitted correctly and appear in proceedings and IEEE Xplor
- Research Experience for Teachers 2014  
Mentor
  - Worked with PI to mentor and support 2 HS/MS technology teachers on research projects in field of cybersecurity
- International Journal of Mobile Network Design and Innovation 2013  
Guest Editor

Dr. Ashley L Podhradsky

- IEEE International Workshop on Cyber Crime (IWCC 2013) 2012  
Program Committee Member  
Appointed by Wojciech Mazurczyk
- IEEE Security and Privacy Workshops 2013  
Publication Co-Chair  
Appointed by Jean Camp of Indiana
- NSF Review Panel Member Department of DUE 2012  
Appointed by Sue Fitzgerald
- DSU REU Mentor 2012  
Appointed by REU PI
- Publication Reviewer 2012  
Hawaii International Conference on System Science  
Volunteer Position
- Publication Reviewer 2012  
IEEE Wireless Technology Symposium  
Volunteer Position
- Board Member of St. Bernadette's Catholic Parish 2010-2012  
IT Infusion Committee
- Board Member of The Community College of Philadelphia 2010-2012  
Computer Information Systems Department
- Board Member of The Community College of Philadelphia 2010-2012  
Computer Forensics Department
- Publication Reviewer 2010- 2016  
Journal of Digital Forensics, Security and Law  
Appointed by JDFSL Editor
- Publication Reviewer 2010-2012  
The Security Conference  
Volunteer Position
- Computers for Humanity 2009-2013  
Computers are custom built and donated to those in need.  
Computers have been donated to Habitat for Humanity  
Families, E3 Youth Enrichment, and Peoples Emergency Clinic  
Private funding solicited, formal funding explored
- Dakota State University Collegiate Cyber Defense 2009-2010  
Competition (CCDC) Red Team Member  
Volunteer Position
- Dakota State University -Women in Science and Technology 2009-2010  
Volunteer Position
- Publication Reviewer 2008  
Hawaii International Conference on Business  
Volunteer Position
- Volunteer Minority Computer Instructor 2007-2008  
Teach basic computer skills to Native Americans on the Santee Sioux Tribe
- Volunteer Activities for Community Members 2006-Current  
Examples: Mentoring WWII Veteran on voice activated software, Using  
forensic skills to track and build timeline for stolen laptop, using forensic  
skills to determine embezzlement, data recovery for non-profits, along with  
additional examples

#### **Service to University**

- Sponsored Program Office Director Search Committee 2016-2017  
Appointed by Dean of Graduate Studies and Research

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- College of Computing Dean Search Committee 2016-2017  
Appointed by Provost
- Dakota State University- Graduate Committee 2012-Current  
Nominated and Voted by Colleagues
- Presidential Search Committee 2015-2016  
Voted by colleagues, appointed by Board of Regents
- Beacom Institute of Technology Planning Committee 2015-2016  
Appointed by Dean and Provost
- Dakota State University- CSA Employee of the Month Committee 2012-2014  
Appointed by Dana Hoff
- Dakota State University- University Club Funding Committee 2012-2014  
Nominated and Voted by Colleagues
- Drexel University- Faculty Senate, Senate Committee on Faculty Affairs 2011- 2012  
Nominated and Voted by Colleagues
- Drexel University- Alternate Faculty Senate 2011- 2012  
Nominated and Voted by Colleagues
- Drexel University- Provosts Council on Neighborhood Partnerships 2010-2012  
Appointed by Dean
- Drexel University- Academic Computer Advisory Committee 2010- 2012  
Appointed by Dean
- Dakota State University Grade Appeals Committee 2008-2009  
Appointed by VP Academic Affairs

#### Service to College

- College of Computing Senior Secretary Search Committee 2017  
Appointed by Dean of College of Computing
- College of Computing Faculty Search Committee 2016-2017  
Appointed by Dean of College of Computing
- Cyber Security Industry Advisory Board 2012-Current  
Founding Chair and Co-Chair
- EPSCOR Computer Science Poster Judge 2016  
Pierre, South Dakota
- Sanford All About Science 2016  
Sioux Falls, South Dakota
- Academic Advisor Search Committee 2016  
Appointed by Dean
- Computer Science Faculty Search Committee 2015  
Appointed by Provost
- Drexel University- Academic Awards Committee 2011  
Appointed by Associate Dean
- Drexel University Construction Management 2010  
Tenure Track Search Committee Member  
Appointed by Associate Dean
- Dakota State University- Computer Science Search Committee 2009  
Appointed by Dean
- Dakota State University Quality Matters- Course Reviewer 2009  
Volunteer Position
- Dakota State University- South Dakota Career Fair, Southeast Tech 2009

#### Service to Program

- CybHER Days and CybHER Together Events 2017  
Visited over 1200+ girls during 2016-2017 AY
- Dakota State University- MS Information Systems and Computer Security Coordinator 2014-Current

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- Dakota State University- Co-Chair of Cyber Security Industry Advisory Board 2012-Current
- Program Preview Day- DTE 2017
- Program Preview Day 2016
- FemSTEM- AAUW Grant- Outreach to 1400 middle school girls in 8 presentations 2016
- Dakota State University- Madison Middle School Cybersecurity Presentation 2015
- Dakota State University- Women in Science Presentation, Sioux Falls- 900 8<sup>th</sup> grade girls 2015
- Dakota State University- Middle School Cyber Security Day 2012
- Dakota State University- Developed DHS Scenarios 2012
- Drexel University- Computing and Security Technology Search Committee Chair 2012  
Appointed by Senior Associate Dean
- Drexel University- Computing Security and Technology Curriculum Committee 2010-2012  
Appointed by CST Director

## Speaking Engagements/ Honors / Misc Education /Conference Workshops:

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1. Invited Speaker: First Bank and Trust Breaking Barriers 2017  
“Protecting against today’s cyber attacks”  
Sioux Falls, SD
2. Invited Panelist: GenCyber Annual Meeting 2017  
Orlando, FL
3. Invited Speaker: Nebraska Women in Banking 2017  
Lincoln, NE
4. Invited Speaker and Panelist: SD Technology Showcase by AT&T and SDN 2017  
Sioux Falls, SD
5. Invited Speaker: Kentucky Women and Banking 2017  
“Current State of Ransomware”  
Louisville, KY
6. Invited Presenter: Google Scholars Alumni Panel 2017  
Palo Alto, CA
7. Invited Presenter: DSU STEAM Camp 2017  
Madison, SD
8. CybHER Day- (40 3-4 year olds) Trinity Preschool 2017  
Madison, SD
9. CybHER Together- (125 3-18 year olds) Washington Pavilion 2017  
Sioux Falls, SD
10. CybHER Together- (55 3-18 year olds) Madison Public Library 2017  
Madison, SD
11. Lightning Talks Session Chair, Women in Cyber Security (WiCyS) 2017  
Tucson, AZ
12. Session Chair, NSF SaTC PI Meeting 2017  
Closing the Diversity Gap in Cyber Security
13. Presenter, SD Telecommunications Association 2016  
“Digital Forensics Case Studies”
14. Presenter, SDBOR Technology Group 2016  
“Digital Forensics: When do you Respond”
15. Keynote, Citi Cyber Stars 2016  
Cybersecurity and the Election
16. Presenter. BBB CyberSecurity Summit. 2016  
Sioux Falls, SD
17. Presenter. STEM Institute. “Diversity in Computing” 2016  
Madison, SD

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18. Panelist. Executive Leadership of CyberSecurity (ELOC) 2016  
Madison, SD
19. Panelist: ASE- USENIX 2016  
“Mentorship of Women in Computer Security”  
Austin, Texas
20. Invited Presenter, Kiwansis Club 2016  
CybHER Security  
Madison, SD
21. Keynote: ND/SD Bankers Association 2016  
Title: Be bold, be brave, bust perfectionism. The key to getting more women in Tech  
Fargo, ND
22. Invited Presenter, Women in Banking 2016  
Title: Women in CyberSecurity  
Missouri Bankers Association
23. Invited Presenter, Women in Banking 2016  
Title: What Women Can Expect in Technology  
Michigan Bankers Association
24. Invited Presenter, NSA GenCyber Panel 2016  
Women In CyberSecurity (WiCyS)  
Dallas, Texas
25. Mentor/Speaker, Women In CyberSecurity (WiCys) 2016  
Dallas, Texas
26. Keynote: Women in Science Day 2016  
Title: Women in Technology  
Aberdeen, South Dakota
27. Keynote: InfraGard 2016  
Title: Digital Forensics Case Studies  
Sioux Falls, South Dakota
28. Invited Presenter, Women in Science Day 2016  
Title: Girls in CyberSecurity  
Iowa
29. Invited Presenter, Girls Scouts Cookie University 2016  
Title: How to Keep Your Information Safe Online  
Madison, South Dakota
30. Mentor/Speaker, Women In CyberSecurity (WiCys) 2015  
Atlanta, Georgia
31. Invited Presenter, Minnesota Bankers Association 2015  
Title: Computer Forensics and Banking  
Minneapolis, Minnesota
32. Speaker, Corporate Account Takeover, Secure Banking Solutions 2015  
Webinar
33. Speaker, Graduate School of Banking 2014  
Title: Computer Forensics and Bank Incident Response  
Madison, Wisconsin
34. Speaker, Women’s Institute of Summer Enrichment 2013  
UC Berkeley
35. Invited Presenter: Cyber Security Research Series- DePaul University 2013  
Chicago, IL
36. Speaker, DSU Research Day 2013  
Cyber Crime and Digital Forensics  
Madison, SD
37. Invited Presenter: Madison SD Rotary 2013  
Cyber Security Programs at DSU  
Madison, SD

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38. Invited Presenter at DSU REU Workshop  
Madison, SD 2012
39. Speaker, Women's Institute of Summer Enrichment  
UC Berkeley  
Berkeley, California 2012
40. Speaker, The Conference on Digital Forensics, Security and Law  
Richmond, VA 2012
41. Speaker, The Security Conference  
Title: Investigating Crimes on Gaming Consoles  
Las Vegas, NV 2012
42. Speaker, Wireless Telecommunications Symposium  
Title: Bluetooth Honey-pot Project  
London, UK 2012
43. Invited Presenter, The Woodlynde School  
Title: Cyber Bullying and Internet Safety: What Parents Need to Know 2012
44. Invited Presenter, St. Bernadette School  
Title: Cyber Bullying: What Youth Need to Know 2012
45. Host, Drexel Computing Security and Technology Seminar Series  
The "Trusted" Insider: Investigating Intellectual Property Theft  
Warren Kruse 2012
46. Invited Presenter, The Pennsylvania State University  
Crime in Virtual Worlds: A Forensic Investigation of an Xbox 360 2012
47. Speaker and Session Chair, The Security Conference  
The Orleans, Las Vegas, NV 2011
48. Speaker, The Conference on Digital Forensics, Security and Law  
Longwood University, Richmond, VA 2011
49. Speaker, America's Conference on Information Systems  
Detroit, MI 2011
50. Speaker, Hawaii's International Conference on Business  
The Hilton, Honolulu, HI 2011
51. Invited Presenter at Department of Justice CyberCrime Symposium  
Philadelphia, PA 2011
52. Invited Presenter at Drexel Universities Cybersecurity Research Forum.  
Digital Forensics on Non-Traditional Devices  
Drexel University, Philadelphia, PA 2011
53. Host and Session Chair at Drexel Universities Cybersecurity Research  
Forum, Rigor and Relevance in Information Security 2011
54. Invited Presenter at Springfield High School, Cyber bullying and  
Internet Safety- Springfield, PA 2010
55. Speaker and Session Chair at Dakota State University's  
Center of Excellence in Information Systems Research Symposium  
Digital Forensics Data Recovery Study 2010
56. Speaker and Workshop leader at South Dakotas Women in Science  
and Technology Conference- Digital Forensics and Youth 2010
57. Speaker and Conference Workshop leader at South Dakota's  
Career Fair for High School Students 2010
58. Digital Forensic Presenter  
South Dakota's Independent Community Bankers Day  
Madison, SD 2009
59. Speaker and Workshop leader at South Dakotas Women in Science  
and Technology Conference- Digital Forensics and Youth 2009
60. Speaker and Conference Workshop leader at South Dakota's  
Career Fair for High School Students 2009

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| 61. Speaker at Dakota State University's Center of Excellence in Information System Conference- Risk Assessments for Small to Medium Sized Financial Institutions        | 2009 |
| 62. Google Anita Borg Women In Technology Conference Speaker Risk Assessments for Small and Medium Sized Financial Institutions  | 2008 |
| 63. Speaker and Workshop leader at South Dakotas Women in Science and Technology Conference- Upgrading Your Computer   | 2008 |
| 64. Speaker at DSU's Annual Women's Day Conference Travels Through the Orient- A Pictorial Depiction of Russia, China, Hong Kong, South Korea, Vietnam, Japan and Taiwan | 2004 |

**Honors/Awards:**

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|---|------|
| • EmBe Young Women of Achievement Winner  | 2017 |
| • EmBe Young Women of Achievement Nominee<br>Nominated twice for the Young Women Leader Category  | 2016 |
| • TRUST (UC Berkeley) Travel Fellowship<br>Travel Award is for participating at WISE 2015   | 2015 |
| o I was on the planning committee for WISE 2015 and led the Digital Forensics mini-track  |      |
| o I worked to recruit speakers, schedule presentations, and introduce women to the WISE program.  |      |
| University of California at Berkeley, Berkeley, CA<br>\$2,500   |      |
| • TRUST (UC Berkeley) Travel Fellowship<br>Travel Award is for participating at WISE 2014<br>Cornell University, Ithica, NY<br>\$2500   | 2014 |
| • <b>Awarded</b> TRUST (UC Berkeley) Travel Fellowship<br>Travel Award is for presenting at TRUST's Autumn Research Conference<br>Washington, D.C<br>\$2500   | 2012 |
| • <b>Awarded</b> TRUST (UC Berkeley) Travel Fellowship<br>TRUST UC Berkeley<br>\$3100   | 2012 |
| • <b>Awarded</b> Women in Science and Engineering Fellowship<br>TRUST UC Berkeley, PI<br>\$3100   | 2011 |
| • <b>Awarded</b> grant for Computers for Humanity Volunteer Project- PI<br>Dakota State University's Center of Excellence in Computer Information Systems funded the Computers For Humanity Project in conjunction with the College of BIS and Education. The project built and gave away 3 computer to local Habitat For Humanity Families<br>\$4000 | 2009 |
| • Google Women in Technology Scholarship Recipient.<br>Selected as one of fifty women across the United States  | 2008 |

**Memberships:**

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|--|--------------|
| • NWCIT                                    | 2010-Current |
| • Association for Information Systems      | 2009-Current |
| • Anita Borg Women in Technology Institute | 2008-Current |
| • Grace Hopper Institute for Women         | 2008-Current |
| • Systers Women in Technology              | 2008-Current |

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- International Association for Technology in Education 2011-2013
- Board Member of St. Bernadette's Catholic Parish IT Committee 2010-2012
- High Technology Crime Investigation Association  
Delaware Valley Chapter 2010-2013
- Board Member of The Community College of Philadelphia  
Computer Information Systems Department 2010-2012
- Board Member of The Community College of Philadelphia  
Computer Forensics Department 2010-2012
- InfraGard Member- Minneapolis & Philadelphia Chapter 2008-2014