



DREXEL UNIVERSITY

Isaac L. Auerbach Cybersecurity Institute

October 2017 Newsletter

In this Issue:

- [NSA Cybersecurity Workforce Education Grant](#)
- [Philly BSides Conference 2017](#)
- [Faculty Spotlight in October!](#)
- [New Cybersecurity Courses](#)
- [Seeking Cyber Students](#)
- [Cybersecurity Awareness Month](#)
- [Spotlight in Cybersecurity](#)
- [Cybersecurity Institute's Recent Publication](#)

Faculty Spotlight



Matthew Stamm
Assistant Professor

Matthew C. Stamm heads the Multimedia and Information Security Laboratory (MISL) where he conducts research on signal

processing and information security with a focus on digital multimedia forensics and anti-forensics. Matthew Stamm has recently been elected onto the Information Forensics and Security Technical Committee of the IEEE SPS!

Degrees:

B.S., University of Maryland, College Park
M.S., University of Maryland, College Park
Ph.D., University of Maryland, College Park (2012)

Office: Bossone 413g

Phone: 215-895-5894

Email: MStamm@coe.drexel.edu

<http://drexel.edu/ece/contact/faculty-directory/StammMatthew/>

New Cybersecurity Courses

New Cybersecurity course sequence is offered this

Cybersecurity News

National Cybersecurity Awareness Month

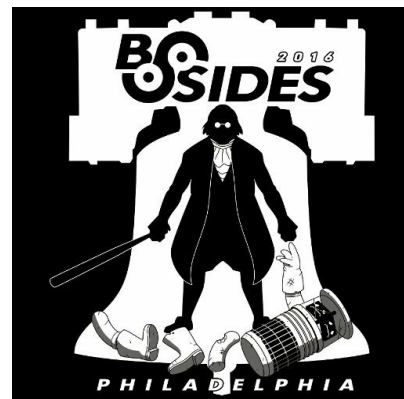
October is National Cyber Security Awareness Month which is an annual campaign to raise awareness about the importance of cybersecurity. The Internet touches almost all aspects of everyone's daily life, whether we realize it or not. National Cyber Security Awareness Month (NCSAM) is designed to engage and educate public and private sector partners through events and initiatives to raise awareness about the importance of cybersecurity, provide them with tools and resources needed to stay safe online, and increase the resiliency of the Nation in the event of a cyber incident.

[Click here for more information](#)

Philly BSides Conference 2017

academic year!

- Instructor: Adjunct Professor **Russel Handorf** of FBI
- Undergraduate and Graduate
- Fall 2017 course: "Security Offensive and Defensive Tactics"
- Follow-up course in Spring 2018



<https://www.bsidesphilly.org/>

The BSides Philadelphia is an Information Security conference by information security community members. The conference is going to be at Drexel University again. The event will be just one day on December 8th. The meeting included speakers, demonstrations, and lectures related to numerous topics in cybersecurity. Small career opportunities and networking sessions were also provided throughout the conference. The limited tickets are available through the student organization, CyberDragons.

[Drexel Isaac L. Auerbach Cybersecurity Institute Has a New Website!](#)

[Click here to check it out](#)

Seeking Cyber Students



Join CyberDragons

- Knowledge and hands-on experience on cybersecurity topics
- Preparation for National Collegiate Cybersecurity Defense Competition
- Meetings for Fall term:
 - Tuesday: 17:00-19:00 (Beginner-Intermediate)

Thursday: 17:00-19:00 (Advanced/Competition Practice)

Location: Science Center at 3401

Market St. 3rd-floor

room 326

Email CyberDragons Student President **Colbert Zhu** with questions about how to get involved at colbert.zhu@gmail.com

[Click Here to Join!](#)



Drexel Women in Computing Society (WiCS)

Drexel's Women in Computing Society's (WiCS) purpose is to support, recruit, and retain women pursuing a degree in the broad field of computing. As a recognized student organization at Drexel University, WiCS is open to

current undergraduate and graduate students of all genders, majors, and backgrounds.

[Click here to learn more about the Drexel Women in Computing Society \(WiCS\)](#)

The Master of Science (MS) Degree in Cybersecurity at Drexel

The MS in Cybersecurity is an interdisciplinary program that prepares students with both the academic and practical training to be competitive in the ever-changing technical landscape of cybersecurity.

[Click here to view required courses and to learn more about the graduate co-op program](#)

Cybersecurity Institute's Recent Grants

Isaac L. Auerbach Cybersecurity Institute has been granted these three grants from different sources for researches in Cybersecurity topics.

1. High Performance Techniques to Identify the Source and Authenticity of Digital Videos Using Multimedia Forensics

Matthew C. Stamm who is a professor at Drexel Electrical and Computer Engineering is a Primary Investor (PI) of this grant. The grant is given by The Army Research Office Rapid Innovation Fund. The grant will be valid until June 2019.

2. Secure Hardware IP Solution Low Overhead Circuit Obfuscation Primitives

Ioannis Savidis who is a professor in College of Electrical and Computer Engineering at Drexel, is a Primary Investor (PI) of the grant. The grant is given by Drexel Ventures Innovation Fund. The grant will be valid until June 2018.

3. Attribution of Malicious Binaries

Rachel Greenstadt who is a professor in College of Computing and Informatics at Drexel, is a Primary Investor (PI) of the grant. The grant is given by Defense Advanced Research Project Agency (DARPA). The grant will be valid until 2019.

Drexel Spotlight In Cybersecurity



Russell Handorf

Ph.D. candidate in the Cybersecurity degree program

Russell Handorf has worked in the information security industry since 2002 when he founded a company that provided secure wireless Internet access and developed the core technology that supported that mission. He has worked in multiple industries but in the field of Information Security; currently he works for a federal law enforcement agency where he researches and develops technologies that support and enhance the investigative mission by overcoming difficult challenges. In his spare time, he researches vulnerabilities in radio transmissions in the field of Software Defined Radio.

[Click here to learn more about Russell](#)

Cybersecurity Institute's Recent Publications

Isaac L. Auerbach Cybersecurity Institute has worked on many publications. Recently, these two papers have been selected to be presented at 12th International Conference on Malicious and Unwanted Software on October 11th to 14th.

1. Behavioral Anomaly Detection of Malware on Home Router

Authors: Ni An, Alexander Duff, Gaurav Naik, Michaelis Faloutsos, Steven Weber and Spiros Mancoridis

2. Lightweight Behavioral Malware Detection for Windows Platforms

Authors: Bander Alsulami, Spiros Mancoridis, Avinash Srinivasan and Hunter Dong

HAPPY HALLOWEEN!

DREXEL ISAAC L. AUERBACH CYBERSECURITY INSTITUTE

Director: Steven Weber, PhD

Student Coordinator: Michael Raffle, CST Student

For more information about the Drexel Isaac L. Auerbach Cybersecurity Institute, please email cybersecurity@drexel.edu



