

CYBER CAMP AGENDA



PRESENTED BY

337 FORENSICS & SANS

AUGUST 11TH - EDT

1:00PM INTRO - James Lyne



JAMES LYNE @JAMESLYNE

James Lyne is SANS' Chief Technology Officer and founder of CyberStart, a gamified cyber security learning platform for young adults used by hundreds of thousands.

KEYNOTE - Marilu Duque



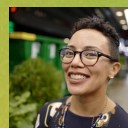
MARILU DUQUE @STEMLATINA

Marilu Duque is a graduate of New York University (NYU) - Tandon School of Engineering and is a current graduate student at the University of Michigan -- Ann Arbor pursuing an M.S. in Information with a concentration in Data Science and Security. Some of her past experiences include being an iSchool Inclusion Institute (i3) Research Fellow, Naval Research Enterprise Intern (NREIP) at the United States Marine Corps Warfighting Lab, and U.S. Department of State's Virtual Student Federal Service (VSFS) eIntern. Currently, she is also a Threat Intelligence Analyst Intern (ICS) at FireEye focusing on Cyber-Physical systems. Her work is centered between the nexus of Machine Learning, Cybersecurity, and research in order to create actionable data that will help shape the next generation of researchers, technologists, and policymakers.

CYBERSECURITY FOR SOCIAL GOOD

1:30PM Thinking Like a Forensic Examiner

Our devices remember what we do, where we've been, and who we've talked to. How can you start to figure out what's stored on your phone? Who might be able to get to your pictures, texts, and messages you lose it?



LODRINA CHERNE @HEXPLATES

A lifelong curiosity about technology and puzzles, and particularly codes and cryptography, made digital forensics a perfect career for Lodrinda Cherne. She sees forensics investigation as a series of facts and data waiting to be identified and discovered, sometimes leading to a clear path, other times showing the investigator that more needs to be done. Lodrinda brings that curiosity to her professional work and became a SANS instructor to help instill solid foundational skills, practices, and techniques in students.

2:00PM Need for Speed: Cracking Hashes to Pwn Passwords

Most of you have probably never cracked a hash before! This is a very quick intro that will show you how to use simple wordlist attacks against a list of hashes and more.



JASON NICKOLA @CHM0DX

Jason is a Senior Security Consultant and COO at Pulsar Security, specializing in penetration testing and red teaming, and a SANS instructor for Network Penetration Testing & Ethical Hacking. Equally passionate about enabling others in their journeys as he is about security and technology, Jason is an organizer of the BSides NH conference, a frequent speaker and trainer at both local and national events, and a founder of TechRamp, a nonprofit which aids in the transition to technical careers. He is a three-time Core NetWars Tournament champion and one of just 23 people in the world named by the SANS Institute as both a Red Team and Blue Team Cyber Guardian for both offensive and defensive security expertise. Jason is also the host of the "Trust Me, I'm Certified" podcast produced by GIAC Certifications.

2:30PM Be Smarter Than the Smartphone

WORKSHOP

Don't let a mobile device outsmart you. This talk will include an introduction to mobile forensics, methods to extract data and how these methods can be used against you by an attacker. Get smarter on how data is stored and how to protect your mobile identity.



HEATHER MAHALIK @HEATHERMAHALIK

Heather has worked on high-stress and high-profile cases, investigating everything from child exploitation to Osama Bin Laden's media. She has helped law enforcement, eDiscovery firms, and the federal government extract and manually decode artifacts used in solving investigations around the world. Heather began working in digital forensics in 2002, and has been focused on mobile forensics since 2010 - there's hardly a device or platform she hasn't researched or examined or a commercial tool she hasn't used.

CYBER CAMP AGENDA CONT.

AUGUST 11TH - EDT

3:30PM The Hidden Information in Photos

In a world where we all have mobile devices, with camera's, we all take photos of literally everything we do in life. But photos nowadays don't just show a picture, there is lots more. Discover the other information in digital pictures that we use in digital forensics to help us solve cases.



JASON JORDAAN @DFS_JASONJ

A self-described philosophical science and tech nerd, Jason's career in digital forensics grew with the developing field. He first joined the South African police force as a detective fresh out of school, putting his problem-solving talents to use. As the only one in his unit interested in computers, Jason was given every case that looked even remotely like it involved technology. As one of the founders of modern-day digital forensics, Jason has perspective on the gaps in training that have existed within the field, which is one of the reasons he began teaching at SANS.

4:00PM Introduction to Network Analysis

WORKSHOP

Learn the basics of copying traffic off a wired network and analyzing it to find "events of interest" ranging from unencrypted traffic to malware communication.



GREG SCHEIDEL @GREG_SCHEIDEL

Greg Scheidel has over 25 years of hands-on experience in IT including desktop and server support, network design and implementation, application development and programming, IT service management, IT security, and information assurance. He currently leads a security program providing a full range of IT security services including SOC, incident management, risk management, penetration testing, forensic and malware analysis, cyber threat intelligence, security engineering, audit and policy SMEs. Greg firmly believes IT and security must serve business needs rather than exist for their own sake, and is passionate about teaching others while expanding and honing his own skills.

AUGUST 12TH - EDT

1:00PM A Teenagers Perspective on Helping Your Parents Help You

Technology can be tough, understanding your parents can be even tougher. Listen to a 16 year old's perspective on why your parents seemed confused and what to communicate to your parents so you trust each other in today's tech world. The greater the trust, the more you can do and the more securely you can do it. .



LANCE SPITZNER @LSPITZNER

Lance Spitzner has over 20 years of security experience in cyber threat research, security architecture and awareness training and is a SANS Senior Instructor. He helped pioneer the fields of deception and cyber intelligence with his creation of honeynets and founding of The Honeynet Project. In addition, Lance has published three security books, consulted in over 25 countries, and helped over 350 organizations build awareness programs to manage their human risk. With the catalyst of COVID-19, Lance created multiple resources for securing humans from home, from those working remotely for the first time or managing newly remote teams, to children learning and playing online.

1:30PM Introduction to Metasploit

WORKSHOP

Jeff will cover real-world hacks (like Twitter, allegedly by a 17-year-old) from start to finish, and walk through some examples with and without Metasploit (a popular hacking tool). Then, he'll go over how you can make your own lab to experiment, learn, and have fun!



JEFF MCJUNKIN @JEFFMCJUNKIN

Jeff McJunkin is a senior staff member at Counter Hack Challenges with more than nine years of experience in systems and network administration and network security. His greatest strength is his breadth of experience - from network and web application penetration testing to digital/mobile forensics, and from technical training to systems architecture. He is a computer security/information assurance graduate of Southern Oregon University and holds many professional certifications. He has also competed in many security competitions, including taking first place at a regional NetWars competition and a U.S. Cyber Challenge capture-the-flag competition, as well as joining the Red Team for the Pacific Rim Collegiate Cyber Defense Competition.

CYBER CAMP AGENDA CONT.

AUGUST 12TH - EDT

2:30PM Intro to Web Applications: What the Heck is a Web App?

Web applications make the internet work. Games, messaging systems, and banking portals are all web apps. What can happen when we interact with them in unexpected ways?



CHRIS ELGEE @CHRISELGEE

Chris Elgee is a senior security analyst and Core NetWars Tournament design lead for Counter Hack, and a commissioned officer in the Massachusetts Army National Guard. At Counter Hack, Chris is responsible for the design and implementation of NetWars challenges designed to be fun, engaging, and challenging for players of all skill levels. His expert storytelling and keen application of real-world hacker techniques have allowed him to create some of the player-favorite challenges throughout NetWars and the Holiday Hack Challenge.

3:00PM Cyber Security Awareness for Online Safety

Did you know that hackers attack every 39 seconds on average? It may seem like it's all fun and games when surfing the web but the reality is that the internet can be a dangerous place. In this discussion, Courtney will provide specific tips to raise security awareness and increase online safety.



COURTNEY H. JACKSON @CYBERCOURTNEY

Courtney is the Founder and CEO of Paragon Cyber Solutions, LLC, a woman, minority, veteran-owned small business headquartered in Tampa, FL. Courtney has more than 20 years of certified hands-on experience in Information Technology, encompassing both executive leadership and entrepreneurship. Through her work, she helps government agencies, tech startups, and commercial companies to protect the integrity of their business operations through specialized cybersecurity and risk management solutions.

3:30PM Introduction to Programming

WORKSHOP

In this session you will learn the essentials of what a programming language is, a few basic commands, and where to go to learn more.



MARK BAGGETT @MARKBAGGETT

Mark Baggett's first foray into information security was on the receiving end of hacking, and he was amazed by the experience. "The hackers made my computer do stuff that I didn't think was possible," he says. "It was like magic and I had to know how the trick was done." He immediately became obsessed with understanding all the tricks, how they worked, and how to prevent them from happening again. Fast forward to today and Mark's infosec career spans nearly 30 years with 15 of those years spent teaching for SANS. Mark is currently a senior instructor for SANS and an independent consultant through his company InDepth Defense providing forensics, incident response, and penetration testing services.

4:30PM Panel and Closing



LEE WHITFIELD @LEE_WHITFIELD

Lee Whitfield seldom accepts anything that he is told. His curious mind and love of challenging norms compels him to obtain the knowledge for himself. It is part of what makes him a great forensic investigator, and also what he hopes to share with his students. He began his digital forensics career in 2006, when a neighbor told him about the field. Lee was hooked. Immediately, he started reviewing books, software and taking classes to build up his skills. He soon had the knowledge and skill to become a digital forensic investigator in both the United States and United Kingdom. Today, Lee is a digital forensic consultant and analyst for his own company, 337 Forensics.