Boston University Metropolitan College

BOSTON UNIVERSITY

2023

INTERNATIONAL WHITE HAT CONFERENCE

Targeted Means to Combat Online Child Exploitation and Victimization

live.bu.edu/whitehat

MAY 31– JUNE 2, 2023

In-Person or Virtual Format

Hosted by Boston University Metropolitan College's
Criminal Justice Graduate Programs and the
Center for Cybercrime Investigation & Cybersecurity

Welcome to the 2023 International White Hat Conference

Sexual exploitation of children in online environments is as pervasive, abhorrent, and serious a crime as traditional abuse of minors. Predatory perpetrators have evolved with the times, utilizing contemporary technology to sexually violate and abuse children, whether through online grooming, the creation and dissemination of exploitative material, or live-streaming sexual abuse. The most prevalent form of abuse comes through the possession, manufacturing, and distribution of sexual exploitation of a child, which made up 99.62% of reported cases in 2022. But children can also be victimized by sex tourism, trafficking, molestation, misleading internet content, online enticement, and the receiving of unsolicited explicit materials.

Focusing on "Targeted Means to Combat Online Child Exploitation and Victimization," the Fourth Annual White Hat Conference is an effort to bring disruptive change to cybercrime investigation through the exploration of innovative techniques and global measures. Our objective is to establish effective criminal justice policies and preventative measures which can bring about more efficient investigations and successful prosecutions.

Bringing together stakeholders from government, the private sector, and academia, the 2023 White Hat Conference aims to enhance higher education's capability to better serve students of cybersecurity, computer forensics, and digital evidence, leading to an improved field of successful cybercrime investigators and prosecutors. Over the two days of morning and afternoon sessions, experts will shine a spotlight on emerging technologies, laws, and policies—all while unpacking the challenges faced by today's law enforcement. Prospective employers will also be on hand for a job fair designed to connect students with internship opportunities within the areas of computer forensics and digital evidence, establishing a collaborative approach between parties to advance the development and implementation of internship/co-op programs.

Hosted by Boston University Metropolitan College's Criminal Justice Graduate Programs and the Center for Cybercrime Investigation & Cybersecurity in collaboration with Utica University, the 2023 White Hat Conference is made possible by a grant from the Department of Justice's Bureau of Justice Assistance, awarded to MET professors Lou Chitkushev and Kyung-shick Choi. We look forward to collaborating with you on innovative solutions to cybercrime issues.

Dr. Kyung-shick Choi
Director, Center for Cybercrime Investigation & Cybersecurity
Professor of the Practice and Director, Cybercrime & Cybersecurity Programs
Boston University Metropolitan College

Agenda

Note that all meeting times are
Eastern Daylight Time (EDT).
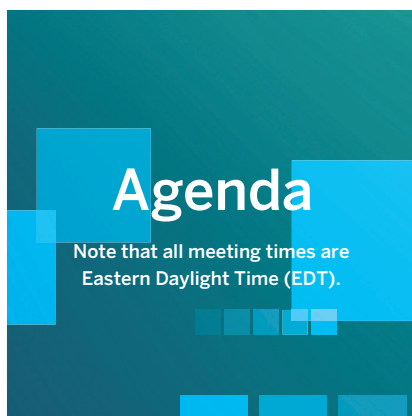
For speaker bios, visit
live.bu.edu/whitehat/speakers.

Wednesday, May 31, 2023

All Day	**Check-in at 1010 Commonwealth Avenue** Registration Open through June 2, 2023
12–1 pm	**Cybercrime Investigation Challenge Orientation**
1–2:30 pm	**Pre-Workshop: Mobile Forensics—Telling the Story with Screenshots and Screen Recording** • Speaker: Richard Frawley, Director of Training, ADF Solutions, Inc.
3–5 pm	**Student Cybercrime Investigation Challenge and Poster Session**

Thursday, June 1, 2023

Morning Sessions

9:30–10 am	**Opening Ceremonies** • Welcome Speech I: Michelle Wu, Mayor of Boston • Welcome Speech II: Dr. Tanya Zlateva, Dean, Boston University Metropolitan College • Opening Remarks: Dr. Kyung-shick Choi, Founder of the White Hat Conference; Director of Cybercrime Investigation & Cybersecurity Programs, Boston University Metropolitan College
10–10:50 am	**Keynote Session I: State Agency** • Moderator/Discussant: Dr. Hannarae Lee, Assistant Professor of Criminal Justice; Co-chair of Cybercriminology and Cybersecurity Graduate Certificate Program, Bridgewater State University • Speaker: Ashley Polin, Chief of the Human Trafficking and Child Exploitation Unit at the Suffolk County District Attorney's Office • Speaker: Jacquelyn Lamont, Supervisor of the Forensic Interview Team and Director of Youth Safety and Outreach for the Suffolk County District Attorney's Office and Children's Advocacy Center of Suffolk County
10:50–11 am	**Break**
11–11:45 am	**Keynote Session II: Federal Agency** • Moderator/Discussant: Dr. Hannarae Lee • Speaker: Edward Bradstreet, Special Agent, Department of Homeland Security, Homeland Security Investigations (HSI)
11:45 am–12 pm	**White Hat Team Introduction**
12–1 pm	**Lunch Break**

White Hat Conference Agenda (cont.)

Afternoon Sessions	
1–1:50 pm	**Session 1 (Online): Global Law Enforcement Expert Panel—Challenges and Best Practices in Online Child Sexual Abuse Cases** • Moderator/Discussant: Dr. Catherine Marcum, Fmr. Chair of the Division of Cybercrime, American Society of Criminology; Chair and Professor of Criminal Justice, Appalachian State University • Speaker: Fabio Bruno, Head of INTERPOL Digital Forensics Laboratory, Innovation Centre, Singapore • Speaker: Dr. Jan Ellermann, Senior Specialist, EUROPOL
1:50–2 pm	**Break/Cybercrime Investigation Challenge Live**
2–2:50 pm	**Session 2: Technical Investigation Training** • Moderator/Discussant: Dr. Sinchul Back, Assistant Professor and Director of Cybercrime & Cybersecurity Studies, University of Scranton • Speaker: Nick Steegmans, Lead Cryptocurrency Investigator, Ciphertrace • Speaker: Justin Gramajo, Head Manager - North America – Cybersecurity, Maltego Technologies
2:50–3 pm	**Break/Cybercrime Investigation Challenge Live**
3–3:50 pm	**Session 3 (Online): Combating Online Child Exploitation—Legal Perspectives and Strategies** • Moderator/Discussant: Ashley Polin • Speaker: Dr. Ilia Kolochenko, Founder, CEO, and Chief Architect, ImmuniWeb • Speaker: Jacquelyn Lamont
3:50–4 pm	**Closing Announcement for Day 1** • Interview with Cybercrime Investigation Competition Director Dr. Ismael Morales, and Case Manager • Cybercrime Investigation Competition: Top 3 Teams • Closing Announcement

Friday, June 2, 2023	
Morning Sessions (Online)	
9:30–10 am	**Program Announcement: Introducing Top 3 Teams and Judges**
10–11 am	**Mock Trial Session 1: Cybercrime Investigation Expert Testimony** • Top 3 Teams Introduction
11–11:10 am	**Break**
11:10 am–12 pm	**Mock Trial Session 2: Judges' Decision** • Dr. Jennifer LaPrade (Mock Trial Moderator, USA) • Dr. Gergely Dzsinich, LLM, CIPP/E (International Judge, Hungary) • Dr. Austen Givens (International Judge, USA) • Colonel Marlon Toro-Alvarez (International Judge, Colombia) • Q&A
12–1 pm	**Lunch Break: Final Decision**

White Hat Conference Agenda (cont.)

Afternoon Sessions	
1–1:50 pm	**Cyber Safety Education Panel** • Moderator/Discussant: Dr. Insun Park, Assistant Professor of Sociology and Criminal Justice Studies, University of Akron • Speaker: Diana DiZoglio, State Auditor, Office of the State Auditor • Speaker: Thomas Meier, Chief Information Officer, Office of the State Auditor • Speaker: Mary Speta, Executive Director, Amirah, Inc.
1:50–2 pm	**Break**

2–2:50 pm	**Student Paper Presentation**
	• Moderator/Discussant: Dr. Thomas Dearden, Assistant Professor of Sociology, Virginia Tech
	• Student Presenters:
	  • Mohammad Asfour and Juan Murillo Torres
	  • Julia Stavola
	• Q&A: 15 minutes per person, plus an additional 15 minutes

2:50–3 pm	**Break**
3–3:50 pm	**Career Fair** • Moderator/Discussant: Madeline Nay, Cybercrime Analyst, Federal Bureau of Investigation (FBI) • Speaker: Alla Lipetsker, Special Agent, Federal Bureau of Investigation (FBI) • Speaker: Meghan Martinez, Director of Cyber Range Programs, CyberTrust Massachusetts
3:50–4 pm	**Break**
4–4:30 pm	**Award Ceremony** • Moderator: Dr. Kyungseok Choo, Associate Dean of the School of Social Science, Communication & Humanities; Professor and Director of Homeland Security Graduate Programs, Endicott College • White Hat Competition Winner (3 Teams) • Student Paper Competition Winner (2 Teams)
4:30–5 pm	**Closing Remarks** • Dr. Lou Chitkushev, Senior Associate Dean, Boston University Metropolitan College
5:30–8 pm	**Closing Reception** Center for Computing & Data Sciences, 665 Commonwealth Avenue, 17th Floor

Cybercrime Investigation Challenge

The White Hat Cybercrime Investigation Challenge is a pathway to assess and promote common goals, needs, and interests related to technical skills and legal expertise required for a comprehensive, high-level cybercrime investigation education. Boston University has developed an evidence-based digital case scenario framework that provides participants with realistic scenarios reflecting major cybercrime cases.

The 2023 Cybercrime Investigation Challenge will take place both virtually and in person. The aim of this challenge is to create effective training for cybercrime investigation, test the best practices that meet the needs of all law enforcement levels, and establish training guidelines for computer forensics and digital evidence.

College students and practitioners will work in teams to engage in activities focused on digital forensics and cybercrime investigation. On May 31 and June 1, teams will participate in a 20-hour challenge. On June 2, the top three teams will have the opportunity to present their findings at a mock trial and provide expert testimony.

Cybercrime Prevention and Response Award

Teams, comprising students and a faculty coach, will be judged on original, unpublished papers presented at the 2023 White Hat Conference. Papers may be on any topic from any academic discipline but must focus on cybercrime and cybersecurity.

The winning team of each participating institution will receive the White Hat Conference Cybercrime Prevention and Response Award. The winning papers will also be considered for publication in the *International Journal of Cybercrime Investigation & Cybersecurity's (IJCIC)* special issue in 2023.

Awards

- First Place Winner: $500 prize
- Second Place Winner: $300 prize
- Third Place Winner: $200 prize

The International Journal of Cybersecurity Intelligence & Cybercrime

The *International Journal of Cybersecurity Intelligence & Cybercrime* is a peer-reviewed journal launched by the Center for Cybercrime Investigation & Cybersecurity in 2018. The *IJCIC* provides empirical research articles, policy reports, case studies, and book reviews that highlight the origins, patterns, causes, motivations, and trends of cybersecurity and cybercrime in a contemporary era, while also providing new methods and approaches to existing issues within the field. By exploring theoretical and practical implications for a wide range of audiences, including academics and industry experts currently working in the field, the journal offers unique opportunities for bridging these audiences and initiating discussions that enhance theory, method, and practice within the growing field of cybersecurity and cybercrime.

Learn more about the journal at **vc.bridgew.edu/ijcic**.

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