



2021 International White Hat Conference

The Future of Cybercrime and Its Challenges: Innovative Solutions against Cybercrime



live.bu.edu/whitehat

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

JUNE 1 & 2, 2021

Welcome to the 2021 International White Hat Conference

From ransomware to cyberterrorism, security breaches, identity theft, online drug-trafficking, cyberbullying, and beyond, online crimes are on the rise.

Despite heightened concern for the role technology plays in online victimization, many law enforcement agencies remain understaffed and under-resourced to defend against developing cybercrime threats. The cybercrime field, globally, requires a fresh approach: an infusion of training in both cybercriminal behavior and information technologies, across law enforcement.

Focusing on the “Future of Cybercrime and its Challenges,” the Second Annual White Hat Conference is an effort to bring disruptive change to cybercrime and explore what global measures could bring about effective criminal justice policies and preventive measures.

Hosted by Boston University's Metropolitan College (MET) Criminal Justice Graduate Programs and the Center for Cybercrime Investigation & Cybersecurity, this conference is made possible by a grant from the Department of Justice's (DOJ) Bureau of Justice Assistance (BJA).

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).

Tuesday, June 1, 2021

Morning Sessions

9:30–10:50 am

Opening Ceremonies

- Welcome Speech: 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
- Keynote Speech: Sean Donnelly, Founder and CEO, Resolvn; Named to *Forbes'* prestigious "30 Under 30" list, 2021
- Q&A

10:50–11 am

Break

11–11:30 am

Keynote Addresses

- Alexis Wales, (Acting) Associate Director, Cybersecurity & Infrastructure Security Agency (CISA)

11:30 am–12 pm

- WHC Team Introduction
- Interview with Ismael Morales, Director of the White Hat Cybercrime Investigation Competition; Assistant Professor of Cybersecurity, Utica College

12–1 pm

Lunch Break

Cybercrime Investigation Competition Live

Afternoon Sessions

1–1:50 pm

Session 1 Presentation

Challenges and Best Practices in Cybercrime Investigation

- Lee Pei Ling, Head of Cyber Strategy & Outreach, Cybercrime Directorate, INTERPOL
- Dr. Nicole S. van der Meulen, Senior Strategic Analyst, European Cybercrime Centre (EC3), Europol
- Q&A

1:50–2 pm

Break/Cybercrime Investigation Competition Live

2–2:50 pm

Session 2 Presentation

Cybercrime Challenges and Solutions in the Private Sector

- Joe Burgoyne, Senior Director of Cyber Security, GE Healthcare
- Benjamin Wright, Attorney; Instructor at SANS Institute
- Q&A

2:50–3 pm

Break/Cybercrime Investigation Competition Live

3–3:50 pm

Session 3 Presentation

Technology Solutions to Fight Cybercrime

- "The Immersive Cybercrime Investigation Training—the Virtual Reality Development," with Dr. Choi
- "LCN Platform: Law Enforcement Collaborative Network," with Salvador Samper Alenda, CEO and Founder, International Observatory of Computer Crime, Spain; and Marlon Mike Toro-Alvarez, Director of the Science Center, Colombian National Police, Colombia

Find speaker bios at live.bu.edu/whitehat/speakers.

↑**Clickable!** For more information on each guest speaker click the link above.

White Hat Conference Agenda (cont.)

3:50–4:30 pm **Interview with Cybercrime Investigation Competition Director and Two Case Managers**
Cybercrime Investigation Competition: Top 3 Teams
Closing Announcement

Wednesday, June 2, 2021

Morning Sessions

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

11–11:10 am **Break**

11:10 am–12 pm **Mock Trial Session 2: Judges' Decision**
 • Dr. Jennifer LaPrade (Mock Trial Moderator, USA);
 Dr. Mohamed Chawki (International Judge, France);
 Nicola Staub (International Judge, Switzerland);
 and Dr. Austen Givens (USA)
 • Q&A
 • Winner Announcement with Score Board

Afternoon Sessions

12–1 pm **Lunch Break**

1–1:50 pm **Student Paper Presentation: Session 1**
 • Student Presenters
 • Q&A

1:50–2 pm **Break**

2–2:50 pm **Student Paper Presentation: Session 2**
 • Student Presenters
 • Q&A

2:50–3 pm **Break**

3–4 pm **Job Fair**
 • Federal Bureau of Investigation (FBI)
 • Homeland Security Investigations (HSI)

4–4:30 pm **Awards Ceremony**
 • White Hat Competition Winner (3 Teams)
 • Student Paper Competition Winner (4 Teams)

4:30–5 pm **Closing Remarks**
 • Dr. Lou Chitkushev, Associate Dean,
 Boston University Metropolitan College

Conference Competitions

Cybercrime Investigation Competition

The 2021 Cybercrime Investigation Competition has gone virtual!

The event's goals are to develop effective cybercrime investigation training, test the best practices reflecting the needs of all levels of law enforcement, and establish training guidelines in computer forensics and digital evidence. This year, teams comprising college students and practitioners will engage in cybercrime investigation-focused activities centered on digital forensics.

Student Paper Competition

The White Hat Conference Paper Awards will be presented to the top four teams, comprised of students and a faculty coach, who have authored original, unpublished papers to be presented at the 2021 White Hat Conference.

The top seven papers will be considered for publication in the special 2021 issue of the *International Journal of Cybercrime Investigation & Cybersecurity* (IJCIC).

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.

About the Center for Cybercrime Investigation & Cybersecurity (CIC)

The Center for CIC is a federal non-profit organization that provides collaborative, multilateral alliances to educate, train, and recommend policy implications to professionals dealing with cybercrime, cybersecurity, and other forms of digital/technological inquiries. The Center aims to connect various interdisciplinary sectors in a global initiative to combat and address burgeoning issues pertaining to various forms of cybercrime(s) and/or online activities.

In 2019, Center for CIC facilitated the First Annual International White Hat Conference in Bogota, Colombia, to promote effective cybercrime investigation training worldwide.

Learn more about the Center for CIC at centercicboston.org.

Hosted by Boston University Metropolitan College

This year's conference is hosted by Boston University's Metropolitan College (MET) Criminal Justice Graduate Programs and the Center for Cybercrime Investigation & Cybersecurity. For over half a century, BU MET has brought the scholarly rigor and resources of an internationally respected research university to busy, working adults via innovative, part-time programs. BU MET offers more than 80 graduate and undergraduate degree and certificate programs evenings on campus, online, and in blended formats designed to meet the needs of both the local and global professional community.

BU MET has been offering criminal justice education since 1973 and has been a leader in the cross-disciplinary field of information security since 2004. Our trailblazing graduate programs in Cybercrime Investigation & Cybersecurity—including a graduate certificate and a Master of Science in Criminal Justice concentration—are designed to help you gain the expertise it takes to make a difference in the cybersecurity field. BU MET's online master's degree in criminal justice has been ranked among the top five Best Online Graduate Criminal Justice Programs each year since 2015 (*U.S. News & World Report*).

Learn more about BU MET at bu.edu/met.

US Department of Justice-Sponsored Graduate Training in Cybercrime Investigation & Cybersecurity

Boston University's Metropolitan College offers a special opportunity to participate in the Student Computer Forensics and Digital Evidence Educational Opportunities Program—a cybercrime training project sponsored in part by a grant from the US Department of Justice's Bureau of Justice Affairs (BJA). Students admitted into BU MET's Graduate Certificate in Cybercrime Investigation & Cybersecurity as part of the BJA-sponsored initiative benefit from interdisciplinary, in-depth computer forensics and cybercrime investigation training as well as valuable internship opportunities in the areas of computer forensics and digital evidence. To learn more, call 617-353-9185 or email APSSAdmissions@bu.edu.

Host Speaker Bios

Tanya Zlateva, PhD

Dean, Metropolitan College & Extended Education
 Professor of the Practice, Computer Science and Education
 Director, Information Security

PhD, MS, BS, Dresden University of Technology

Dean Zlateva's research interests include computational modeling of visual perception, parallel and distributed processing, and pattern recognition. She was instrumental in developing the information security curriculum that led to Boston University's designation as a Center for Academic Excellence in Cyber Defense and Research by the National Security Agency and Department of Homeland Security. She is an expert in online course delivery and development, and she has an accomplished research background in computer science. Dr. Zlateva is currently director for education at Boston University's Center for Reliable Information Systems & Cyber Security (RISCS). In 2010, the RISCS team secured two \$3 million grants from the National Science Foundation. The funds will support two major research projects in the field of IT: "Securing the Open Softphone" and "Towards Trustworthy Interactions in the Cloud."



Kyung-shick Choi, PhD

Director, Center for Cybercrime Investigation & Cybersecurity
 Professor of the Practice and Director, Cybercrime Investigation & Cybersecurity Programs, Metropolitan College

PhD, Indiana University of Pennsylvania

MS, Boston University

BS, Northeastern University



Dr. Choi designed and oversees the Master of Science in Criminal Justice concentration and certificate in Cybercrime Investigation & Cybersecurity (CIC), offered jointly by the Department of Applied Social Sciences and Department of Computer Science at Boston University's Metropolitan College. He is also the director of the Center for CIC.

Choi has an established track record in designing and delivering law enforcement training programs in cybercrime investigation, including computer forensics and child exploitation investigation. He facilitated the Korean Institute of Criminology global cybercrime project, Virtual Forum Against Cybercrime (VFAC), in cooperation with the United Nations, and also served as an instructor and consultant. He has been invited to deliver lectures at the INTERPOL and the AMERIPOL summits

and has also testified as a cybercrime expert in support of a cybersecurity bill (No. H2814) for the Massachusetts Statehouse. Choi is editor-in-chief of the *International Journal of Cybercrime & Cybersecurity Intelligence* (IJCIC).

Host Speaker Bios (cont.)

Lou Chitkushev, PhD

Associate Dean for Academic Affairs, Metropolitan College
Associate Professor, Computer Science
Director, Health Informatics and Health Sciences

PhD, Boston University

MS, Medical College of Virginia





MS, BS, University of Belgrade

Dr. Chitkushev has served on several IEEE conference committees and as a NSF review panelist. He is cofounder and associate director of Boston University's Center for Reliable Information Systems & Cyber Security (RISCS), and played a role in initiatives that led to Boston University's designation as a Center of Academic Excellence in Cyber Defense and Research by the National Security Agency and Department of Homeland Security. Chitkushev teaches data communications, computer networks, advanced internet technologies, medical informatics, and network security.









Boston University
Metropolitan College
1010 Commonwealth Avenue
Boston, MA 02215
bu.edu/met

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Center for Cybercrime Investigation & Cybersecurity
46 Warren Ave, Milton 02138
centercicboston.org

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