

2023



WHITE HAT JR. CAMP

Securing Tomorrow's Digital Guardians: Empowering K-12 Students with the Future Cyber Defender Program



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We are thrilled to invite you to the inaugural White Hat Jr. Camp, a transformative event hosted by the esteemed Center for Cybercrime Investigation and Cybersecurity (Center for CIC). This hybrid (Online and In-Person) camp will take place from July 25-27, 2023 at the University of Scranton!

In today's fast-paced digital landscape, the complexity and severity of cyber threats are constantly on the rise, posing a significant challenge for organizations seeking skilled cybersecurity professionals to protect their systems from malicious actors. Across various roles within the cybersecurity field, there is a pressing shortage of talent, particularly in high-demand positions like cybercrime investigators and cyber defenders. The White Hat Jr. Camp aims to bridge this gap by empowering young individuals to transition from passive online users to future cybersecurity defenders, cybercrime investigators, and digital forensic examiners.

Furthermore, this camp aims to foster collaboration between dedicated parents, schools, and our talented future cybersecurity professionals in creating a safe cyber-environment. By leveraging their skills and knowledge, we can collectively work towards building a secure digital space.

We are excited to embark on this journey with you, as we shape the next generation of digital detectives and guardians of cyberspace.

Dr. Kyung-shick Choi

Professor of the Practice
Director, Cybercrime and Cybersecurity
Boston University

Dr. Sinchul Back

Assistant Professor
Director, Cybercrime and Cybersecurity Studies
University of Scranton

Marlon Mike Toro-Alvarez

Lieutenant colonel @Colombian National Police
Research & Teaching Assistant at Southern Illinois University Carbondale



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

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Program Information

The White Hat Jr. Camp is a three-day long camp (9 am - 3 pm) hosted by the University of Scranton in collaboration with Boston University's the Center for CIC. This camp will focus on increasing student's interests in cyber-security by teaching them skills in cybersecurity knowledge, safe online behavior, and cyber forensics investigation. Camp participants will engage in hands-on explorations of the many concentrations of cybersecurity including foundation of cybersecurity, cyber law, ethical hacking, and digital forensics investigation techniques.

Camp participants will explore the world of cyber investigation while working with experts through exciting, real-world learning experiences enhanced by teacher-student interaction. Camp activities include virtual hands-on exercises, interactive lectures, games, and career explorations.

This camp is a hybrid program (on-site or online) offered to all participants around the world. On the last day of camp, students will participate in a team-based Cyber Investigation Olympic Games. This Cyber-Olympic competition will also be held in the Cyber-Forensics & Cybersecurity Lab at the University of Scranton.

Awards:

- First Place Winner Team: \$300 USD prize
- Second Place Winner Team: \$180 USD prize
- Third Place Winner Team: \$150 USD prize

Funding of the camp is provided by the Center for CIC.

How to Apply

To increase motivation and introduce a fun learning environment, we will apply the Team-Based Learning (TBL) method, which enables students to work through problems in teams and engage in cybercrime investigation tasks together. Teams will be made up of 2-3 students. Therefore, students who wish to participate in the White Hat Jr. Camp must have a minimum of 1 and maximum of 2 team members to be eligible for registration.

The application and fee payment deadline is 11:59 PM on June 30th, 2023. Due to limited availability, early registration is strongly recommended. Please submit your completed application via (see the following link: <https://forms.office.com/r/iKgQeyJfVp>)



Register to participate in the White Hat Jr. Camp and join the effort to combat cybercrimes!

Cost

All camp activities are offered at \$300 USD (fee) per participant.

If camper wants to stay in the University of Scranton's Dormitory, he/she needs to pay additional \$200 USD for 2-nights' accommodation.

You will receive the payment information, once you get accepted to this camp

Selection Criteria

Open to scholars currently enrolled in grades 9-12, who are passionate about cyber investigation and cybersecurity.

Participants are selected on a competitive basis. It is helpful to have a strong interest in computing and cybersecurity. Women and underrepresented minority groups in STEM are strongly encouraged to apply.

Application

- Completed application.
- Short answer responses to the questions found on the application website.
- Signature of applicant.
- Signature of parent or guardian.

ENROLL YOUR APPLICATION AND CONTACT OUR OFFICE WITH ANY QUESTIONS.

Application Website: <https://forms.office.com/r/iKgQeyJfVp>




Email: michael.jenkins@scranton.edu; sinchul.back@scranton.edu; admin@centercicboston.org)


Agenda


Day 1: July 25 (Tuesday) Criminal Profiling, Cybersecurity Foundation, and Cyber-Intelligence		
09:00 - 09:10	Welcome by U of S Administration	Dr. David J. Dzurec <i>(Dean, Univ of Scranton)</i>
09:10 - 10:00	<ul style="list-style-type: none"> Pre-Assessment Cyber Threat Landscape (Lecture) Cybercriminal Profiling (FBI's Most Wanted Cases-Lecture) 	Dr. Sinchul Back <i>(Univ of Scranton)</i>
10:00 - 10:10	Break	
10:10 - 12:00	<ul style="list-style-type: none"> Ethical Hacking (Lecture) Exercise: Hands-on experience 	Dr. Mehmet Bastug <i>(Univ of Scranton)</i>
12:00 - 13:00	Lunch and Outdoor Activity	
13:00 - 13:50	<ul style="list-style-type: none"> Open-Source Intelligence (OSINT) 	Mr. Mike Toro <i>(Former Colombia National Police)</i>
13:50 - 14:00	Break	
14:00 - 14:50	<ul style="list-style-type: none"> Open-Source Intelligence (OSINT) 	Mr. Mike Toro <i>(Former Colombia National Police)</i>
14:50 - 15:00	Closing	Dr. Sinchul Back
Day 2: July 26 (Wednesday) Cyber Law and Cybercrime Investigation		
09:00 - 09:10	Warming-up	Cyber Mentors
09:10 - 10:00	<ul style="list-style-type: none"> Introduction to Cyber Workforce 	Madeleine Nay <i>(FBI Agent)</i> Meghan Martinez <i>(CyberTrust Massachusetts)</i>
10:00 - 10:10	Break	
10:10 - 11:00	<ul style="list-style-type: none"> Cybercrime Investigation Procedure (Lecture) Exercise: VR Search & Seizure 	Dr. Kyungshick Choi <i>(Boston University)</i>
11:00 - 11:10	Break	
11:10 - 12:00	<ul style="list-style-type: none"> Digital Forensics Analysis 1 (Lecture) Exercise: Disk/Network Forensics 	Dr. Sinchul Back <i>(Univ of Scranton)</i>
12:00 - 13:00	Lunch and Outdoor Activity	


13:00 - 13:50	<ul style="list-style-type: none"> Digital Forensics Analysis 2 (Lecture) Exercise: Mobile Forensics 	Dr. Sinchul Back
14:00 - 14:50	<ul style="list-style-type: none"> Digital Forensics Analysis 3 (Lecture) Exercise: Drone Forensics 	Dr. Sinchul Back
14:50 - 15:00	Closing	Dr. Sinchul Back
Day 3: July 27 (Thursday) White Hat Jr. Olympic Games		
09:00 - 09:10	Warming-up	Cyber Mentors
09:10 - 09:20	<ul style="list-style-type: none"> Introduction for Cyber Olympic Games 	Dr. Sinchul Back
09:20 - 09:30	Break	
09:30 - 11:00	<ul style="list-style-type: none"> Cyber Olympic Games 	Dr. Sinchul Back & Cyber Mentor
11:00 - 11:10	Break	
11:10 - 12:00	<ul style="list-style-type: none"> Cyber Olympic Games 	Dr. Sinchul Back & Cyber Mentor
12:00 - 13:00	Lunch and Outdoor Activity	
13:00 - 13:50	<ul style="list-style-type: none"> Cyber Olympic Games 	Dr. Sinchul Back & Cyber Mentor
13:50 - 14:00	Break	
14:00 - 14:50	<ul style="list-style-type: none"> Review of Cyber Olympic Games Post-Assessment Awards Ceremony (Top 3 Teams) 	Drs. Choi and Back, and Mr. Mike Toro
14:50 - 15:00	<ul style="list-style-type: none"> Closing 	

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