#### April 2021, VOLUME 3 ISSUE 4

# **CFIC@SHSU**

Sam Houston State University ter Nev 1.001, 01010 10 01 001 100 770 70 0 Cyber Forensics Intelligence Center Newsletter

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#### HIGHLIGHTS

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- The April Digital Forensics Intelligence (DFI) Research group speakers include Dr. Glisson, Mr. Colby Parker, Mrs. Naciye Celebi, and Mr. Sundar Krishnan.
- Mr. Marc Crudgington with Woodforest National bank is the highlighted CFIC and **Computer Science Advisory Board** Member this month.
- The DFI research group presentation schedule is available on the CFIC website.



#### **DIRECTOR'S MESSAGE**

Articles are continuously published highlighting zero-day attacks, malware, compromised servers, and ransomware. All of these activities emphasize the need for organizations to examine their cybersecurity posture, investigate and develop novel solutions, and recognize the need for continuous employee education.

The Cyber Forensics Intelligence Center (CFIC) and Computer Science Advisory Board members are active partners in the CFIC's effort to investigate real-world solutions. In today's digitally dependent environment, the CFIC can assist your organization with researching and addressing your cybersecurity and cyber forensics requirements. Contact the CFIC to see how the Department of Computer Science faculty and students can help solve your digital challenges.

## Advisory Board Highlight: Marc Crudgington

Marc Crudgington is the Chief Information Security Officer, SVP Information Security for Woodforest National Bank and in the role since joining Woodforest in August 2012.



Marc is a veteran of the United States Air Force where he held a Top-Secret clearance and performed duties in intelligence, computer operations, and network communications. Previously, Marc worked for Advantage Sales and Marketing, KPMG, and Silicon Valley technology companies with leadership roles in IT and engineering. Marc has a MBA, Technology and Strategy, from the University of California Irvine - Paul Merage School of Business and a Bachelor of Business Management from the University of Phoenix. Marc attended the FBI CISO Academy in March 2017. He holds a Secret Clearance and QTE, CAS, PCIP, ISA, CDPSE, CRISC, Security+, Scrum Master, and ITIL certifications; previously he held a C|CISO, PMP, TOGAF, CISM and CISA certifications. Marc authored the book The Coming Cyber War - What Executives, The Board, and You Should Know. Marc is also the Founder, CEO, vCISO of CyberFore Systems LLC, a cybersecurity consulting venture and he host a podcast, The CISO Revelation.

Marc serves on the FBI InfraGard Houston Chapter Board of Directors, Lightspeed Venture Partners CIO Innovation Forum, Lightspin Technologies Advisory Board, Optiv Customer Advisory Board, Community Bankers Association Privacy/Data Security Working Group, and several cybersecurity and technology advisory boards. Previously Marc was part of the Texas Banker's Association Technology Committee, the National Infrastructure Protection Plan Working Group and DHS Threat Information Sharing Framework Working Group. Marc has been a contributor of several articles, presentations, and white papers on LinkedIn, for the Project Management Institute, and serves as a speaker, panelist, and moderator at several IT and Security conferences. In 2019 Marc was awarded the coveted T.E.N. ISE North America Executive of the Year – Financial Services award and in previous years a finalist.



### **DFI Seminar Schedule April**

**04/05/2021:** Dr. Brad Glisson Associate Professor: Sam Houston State University *Research* 

04/12/2021: Colby Parker

Doctoral Candidate: University of South Alabama Adversarial Machine Learning for Software Protection

**04/19/2021:** Naciye Celebi Doctoral Student: Sam Houston State University DeepFake Detection

04/26/2021: Sundar Krishnan

Doctoral Candidate: Sam Houston State University Security, Privacy, and Steganographic Analysis of FaceApp and TikTok

## DFI Seminar Speaker: Colby Parker

Mr. Colby Parker received his B.S. degree in Computer Science from the University of South Alabama in 2017 and his M.S. degree in Computer and Information Sciences from The University of South Alabama in 2018. He is currently a Ph.D. candidate at The University of South Alabama. His research interests include Adversarial Machine Learning, Software Protection, Machine Learning, Deep Learning, Reinforcement Learning, and Steganography.



He was a Graduate Research Assistant while earning his master's degree and was accepted into the cybersecurity focused Scholarship for Service (SFS) program upon starting his Ph.D. Mr. Parker regularly gives cybersecurity focused research presentations at South Alabama's Software Protection and Exploitation Research Group (SPERG), while semiregularly giving more machine learning focused presentations at South Alabama's Data Science Research Seminar (DSC). His current research focuses on the application and impact of Machine Learning for Software Protection analysis and improvement.

## DFI Seminar Speaker: Naciye Celebi



Naciye Celebi received the B.S. Degree in Computer Science from North American University and an M.S. degree in Digital Forensics from Sam Houston State University. She is currently enrolled in the Digital and Cyber Forensic Science doctoral program at Sam Houston State University. She is currently a researcher in the Cyber Forensics Intelligence Center. Her current research focuses on Multimedia Forensics. In the past, she has worked on Machine Learning and Deep Learning research projects.

## DFI Seminar Speaker: Sundar Krishnan



Sundar Krishnan, CISM, CISSP, PMP, Black Belt Six Sigma, ITIL(F), is a Cybersecurity and Information Technology professional having over 25 years of experience across various industries such as Aerospace, Banking, Energy,
Textiles, Oil & Gas, Industrial Automation and Healthcare. He has a master's degree in Digital Forensics from Sam Houston State University (SHSU) and a master's degree in Computer Applications from Bharathiar University.

In his career, he has held many positions such as Team lead, programmer, service delivery coordinator, consultant and in senior management. He is currently pursuing a PhD in Cyber and Digital Forensics at Sam Houston State University. During his doctoral studies, he has published research papers and presented his research findings at various international conferences. His current and long-term research focus is in Digital Forensics, Cybersecurity, Risk Management and Data Privacy in eDiscovery and litigation.

## **Partnerships**

#### Internship Program

Organizations partner with the Center to provide on-site internship experiences to students enrolled in the Department of Computer Science at SHSU to assist in workforce development.



#### Capstone Project

Provides students with the opportunity to interact with industry while simultaneously introducing them to practical research. These projects are conducted in conjunction with industrial partners at no cost to the organization.

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#### Seminar Presentations

Industrial partners are invited to make presentations during the fall and spring semesters on challenges that they face from cybersecurity, digital forensics, and information assurance perspectives.

## **CONTACT THE CFIC**

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## **CFIC MISSION**

To conduct world-class, leading cyber forensics and security research, provide real-world training solutions, investigate cutting edge cyber forensic investigation resources; promote professional networking; and participate in open data exchanges.



To bring together leading industry participants, practitioners, and faculty members from a variety of disciplines to research cyber forensic and digital security topics that are of interest to governmental, commercial and legal communities in order to:

- Deliver innovative, avant-garde, pioneering research expertise in security and forensics that solves real-world problems
- Partner with governmental, commercial, and legal communities to improve workforce education through world-class training programs
- Provide state-of-the-art research facilities, equipment, and training that empowers faculty to pursue substantial research funding
- Deliver to governmental, commercial, and legal communities a collaborative operational and investigative ecosystem for identifying and resolving cyber forensics and security challenges

#### Please follow us @



#### **Directions**

I-45, Huntsville, TX 77340 to Avenue I, Huntsville, TX 77340

1.Depart I-45, Huntsville, TX 77340 2. Turn East onto US-190 [SR-30] for 1.1 miles.

3. Turn Right(South) onto SR-75 [N. Sam Houston Ave] for 0.4 miles.

4. Turn Left(East) onto 16th St. for 0.2 miles. 5. Turn Right(South) onto Avenue I for 0.1

miles. 6. Arrive Avenue I.

The Cyber Forensics Intelligence Center is located in AB1 Room 208