

Billy Tsouvalas

Teaching Assistant & PhD Student at SBU
Electrical Engineer BSc, MSc
IBM Certified Cybersecurity Analyst

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Education

Stony Brook University (SBU)	2022-Present
Computer Science PhD	
Virginia Commonwealth University (VCU)	2021-2022
Computer Science Graduate Studies	
University of Patras	2014-2020
BSc, MSc from Electrical and Computer Engineering Department	
Master's Thesis: Malware Classification Methodologies	

Research

SBU PragSec Lab	2022-Present
Web Security and Online Deception	
Moving Target Defense	
Honeypots and Deceptive Security	
VCU Modern Heuristics Research Group	2021-2022
Network Security and Cyber Threat Analysis and Characterization	
Critical Infrastructure Cybersecurity	
AI-Deep Learning Adversarial Examples Attacks	
University of Patras Malware Analysis Team	2019-2020
Development of Static and Dynamic Malware Detection Tool	
Participation in Cybersecurity Exercise Panoptes 2020	
(Hellenic National Defence General Staff)	
Participation in HackTheBox CTFs	

Publications

	2021
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Marino, Daniel L., Chathurika S. Wickramasinghe, Billy Tsouvalas, Craig Rieger, and Milos Manic. "Data-Driven Correlation of Cyber and Physical Anomalies for Holistic System Health Monitoring." IEEE Access 9 (2021): 163138-163150.	
	2020
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Tsouvalas, B. (2020). Malware classification methodologies. (link)	

Work Experience

SBU Teaching Assistant	2022-Present
TA for Computer Networks course	
Research on Web Security	
VCU Cybersecurity Research	2021-2022
Network Intrusion Detection and Prevention Systems	
Critical Infrastructure Cybersecurity: Energy Sector (Solar, Wind)	
VCU Cybersecurity Center Social Media Administrator	2021-2022
Social Media Marketing and Digital Presence	
University of Patras Research Intern	2019-2020
Static and Dynamic Malware Analysis and Detection	
Online Misinformation Propagation	
Website Development and Maintenance	2018-2020
Web Design/Development	
Web Applications	
Social Media and Digital Marketing	

Certifications & Courses

Google IT Automation w/ Python Prof. Cert.	Obtained: Oct. 2021
Course duration: 8 months	
Cyber Incident Response Specialization	Obtained: Aug. 2021
INFOSEC	
Course duration: 4 months	
IBM Cybersecurity Analyst Prof. Cert	Obtained: Dec. 2020
Course duration: 8 months	
Homeland Security and Cybersecurity Specialization	Obtained: Dec. 2020
University of Colorado, Colorado Springs	
Course duration: 4 months	
Usable Security	Obtained: Nov. 2020
University of Maryland, College Park	
Palo Alto Networks Academy Cybersecurity Foundation	Obtained: Nov. 2020
Palo Alto Networks	
Generative Adversarial Networks (GANs)	Obtained: Nov. 2020
DeepLearning.AI	

Professional Skills

Malware Analysis

NSA Ghidra, Hex Rays IDA Pro, Radare, Malware Reverse Engineering, Control Flow Graphs, API Call Graphs

Penetration Testing and Forensics

OWASP, Burp Suite, Metasploit, NMAP, Hashcat, Aircrack-ng, Volatility

Network Security

IDS/IPS, Wireshark, Zeek, Suricata, Snort, Stratosphere IPS, Anomaly Detection, Intrusion Detection Datasets

Programming and Scripting

Python, C, C++, DSP Assembly, Java, Javascript, Git, Matlab

Soft Skills

Fast Learner Responsible Performance Under Pressure Team Work
Multitasking Stamina Verbal Communication Public Speaking

Languages

English^a ● ● ● ● ●
French^b ● ● ● ● ●
Greek (Native) ● ● ● ● ●
German ● ● ● ● ●

^aETS TOEFL Nov. 2020, Score: 115/120

^bDALF C1 CERF

Misc

Military Service Obligations Fulfilled 2018-2019
Hellenic Navy