



**JOSEPH
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PH.D.**

*Vice President &
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**CURRICULUM
VITAE**

January 2024

PROFESSIONAL HISTORY

Dr. Joseph Greenfield is the Vice President and Chief Forensic Examiner at Maryman & Associates. He is a renowned computer forensics expert with over 15 years of investigative experience, including cyber breach investigations, employee misconduct, and email recovery and analysis. He has worked over 1000 cases and analyzed over 2000 pieces of digital evidence. He is known for deep forensic analysis while being able to explain technical details to non-technical decision-makers.

Dr. Greenfield is also an award-winning Associate Professor of Information Technology Practice at the Viterbi School of Engineering at the University of Southern California. In 2009, he authored the first undergraduate cyber security program at USC. In 2012, he launched a minor in Computer & Digital Forensics, adding domain specific forensic courses to the undergraduate catalogue in Enterprise and Network Forensics, eDiscovery, Mobile Device Security and Forensics, and Mac, OSX & iOS Forensics. In 2014, the Ponemon Institute ranked USC as 6th in the nation for “Best Schools for Cybersecurity” and the highest ranked on the West Coast. In 2019, he co-created an interdisciplinary bachelor's degree in Intelligence and Cyber Operations, now a part of the USC Political Science and International Relations Department in the Dornsife College of Letters, Arts and Sciences. He has taught thousands of students who have progressed to careers at some of the largest consulting companies in the world.

Dr. Greenfield engages in practical research in digital forensics. In 2009, he presented some of his research of peer to peer networks, specifically BitTorrent, to the Los Angeles Electronic Crimes Task Force (LAECTF) and the Los Angeles Chapter of the Information Systems Security Association (ISSA). He pioneered new techniques for associating downloaded content to the metadata files (.torrent files) with extreme accuracy. In 2012 and 2013, he presented a series of lectures to the LAECTF on Solid State Drives (SSDs), articulating the problems of flash memory for forensics and outlining how operating systems change their behavior when deployed on SSDs.

Dr. Greenfield holds a Bachelor's Degree in Computer Engineering & Computer Science and a Master's Degree in Computer Science from the University of Southern California. He completed his Ph. D. in Computer Science at the University of Rhode Island, where his research focused on parallel processing of all live files while creating a forensic bitstream image.



EDUCATION *University of Rhode Island*

Ph. D. Computer Science, Concentration in Digital Forensics Dec. 2019
Dissertation: *SPARTA: System For Portable Acquisition with Real-Time Analysis*
https://digitalcommons.uri.edu/oa_diss/1082/

EDUCATION *University of Southern California*

M.S. Computer Science Aug. 2006
Cyber-Security Certificate, Information Technology Program Dec. 2005
B.S. Computer Engineering and Computer Science May 2005

PROFESSIONAL AND TEACHING EXPERIENCE

Vice President & Chief Forensic Examiner Nov. 2017 - Present
Maryman & Associates
Senior Forensic Examiner Sep. 2008 – Nov 2017
Maryman & Associates
Associate Professor of Information Technology Practice July 2016 - Present
USC Information Technology Program
Senior Lecturer July 2012 – July 2016
USC Information Technology Program
Lecturer, Part-Time and Full-Time Aug. 2006 – June 2012
USC Information Technology Program

CERTIFICATIONS

GIAC Certified Forensic Analyst (GFCA) Jan 2021 - Jan 2025

PUBLICATIONS

Greenfield, Joseph, "SPARTA: SYSTEM FOR PORTABLE ACQUISITION WITH REAL-TIME ANALYSIS" (2019). Open Access Dissertations. Paper 1082.

https://digitalcommons.uri.edu/oa_diss/1082

ACADEMIC RESEARCH

Department of Electrical and Computer Engineering, ***Naval Postgraduate School***
July 2010 - August 2010
Researcher, Honeynet Project
Under the supervision of Dr. Jeffrey Knorr and Dr. John McEachen

SELECTED PRESENTATIONS & LECTURES

Cybersecure SoCal 2019
October 17, 2019
Co-Presenter – Cybersecurity is a Team Sport
USC-CBIZ Risk Management Symposium
October 11, 2018
Panel Moderator – Cybersecurity: When Planning May Not Be Enough



Enfuse 2017
May 22-25, 2017
Speaker – Forensics Report Writing

US Attorney/FBI Cyber Security Summit
October 18th, 2016
Panelist

USC Information Security Summit
November 30th, 2015
Invited Speaker – Security Concerns for Faculty

Los Angeles Electronics Crimes Task Force Quarterly Meeting
May 24th, 2013
Speaker – A Way Too Early Look at Windows 10 Forensics

USC Information Security Summit
November 30th, 2014
Joint Speaker – Lessons Learned on the Frontlines of Digital Forensics

Educause
October 16th, 2013
Panelist - A Proactive Approach to Data Breach Response

Digital Forensics Group, US Treasury Inspector General for Tax Administration (TIGTA)
August 8th, 2013
Speaker – Solid State Drive Forensics and Advanced Topics

Los Angeles Electronics Crimes Task Force Quarterly Meeting
May 24th, 2013
Speaker – Advanced Solid State Topics

Los Angeles Electronics Crimes Task Force Quarterly Meeting
May 18th, 2012
Speaker – Solid State Drive Acquisitions and Forensics

Los Angeles Electronics Crimes Task Force Quarterly Meeting
May 19th, 2009
Speaker – BitTorrent Forensics

COURSES TAUGHT – UNIVERSITY OF SOUTHERN CALIFORNIA

ITP 101 – Introduction to Information Technology
ITP 109 – Introduction to Java Programming
ITP 125 – From Hackers to CEOs: Introduction to Information Security
ITP 325 – Ethical Hacking and Systems Defense (previously titled Web Security)
ITP 370 – Information Security Management
ITP 375 – Digital Forensics
ITP 425 – Web Application Security
ITP 457 – Network Security
ITP 475 – Advanced Digital Forensics
INF 528 – Computer and Network Forensics



PROGRAMS AUTHORED AND DEVELOPED – UNIVERSITY OF SOUTHERN CALIFORNIA

Dornsife - Bachelor of Arts in Intelligence & Cyber Operations (Co-Author)
Information Technology Program - Minor in Applied Computer Security
Information Technology Program - Minor in Computer and Digital Forensics
Information Technology Program - Specialization in Computer and Digital Forensics

COMPUTER PROGRAMMING LANGUAGES EXPERIENCE

C/C++, C#, Java, Python, BASIC, SQL, Javascript, HTML

COMPUTER FORENSIC TOOLS EXPERIENCE

Autopsy, EnCase 6/7/8, FTK5/6, Internet Evidence Finder, Axiom, Log2Timeline, Forensic Explorer, Intella, KAPE, F-Response

OPERATING SYSTEMS EXPERIENCE

Apple/Macintosh OS 7,8,9,X
Linux/Unix
Microsoft DOS, Windows NT, 95, 98, ME, 2000, XP, Vista, 7, 8/8.1, 10, 11
Blackberry OS; Palm OS; Apple iOS, Android

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

Information Systems Security Association (ISSA)
American Academy of Forensic Sciences (AAFS)
Secure the Village Leadership Council

HONORS & AWARDS

USC Viterbi School of Engineering Dean's Award for Innovation in Teaching and Education	2021
Certificate of Appreciation, United States Secret Service	2009
Special recognition for teaching excellence, Information Technology Program, December	2008
USC Deans Engineering Scholarship	2001