JOSEPH GREENFIELD, PH.D.

Vice President &
Chief Forensic Examiner

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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. His 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/](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** Maryman & Associates Nov. 2017 - Present
- **Senior Forensic Examiner** Maryman & Associates Sep. 2008 – Nov 2017
- **Associate Professor of Information Technology Practice** July 2016 - Present

**USC Information Technology Program**

- **Senior Lecturer** July 2012 – July 2016  
- **Lecturer, Part-Time and Full-Time** Aug. 2006 – June 2012

**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](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 24th, 2012  
*Speaker – Solid State Drive Acquisitions and Forensics*

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

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**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