

JOSEPH GREENFIELD, PH. D.

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CURRICULUM VITAE

February 2025

PROFESSIONAL HISTORY

Dr. Joseph Greenfield is an Associate Professor of Technology and Applied Computing Practice in the Viterbi School of Engineering at the University of Southern California. In 2009, he authored the first undergraduate cyber security program at USC which attracted more than fifty students in its first year. The minor added courses in Digital Forensics, Advanced Digital Forensics, Enterprise Network Design, Ethical Hacking & System Defense, and Information Security Management. 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 2018, he co-authored a new interdisciplinary Bachelor of Arts degree in Intelligence and Cyber Operations, combining global international relations and intelligence studies with applied cybersecurity and investigative techniques. The major was ITP’s first joint interdisciplinary major with the Dornsife College of Letters, Arts and Science.

Dr. Greenfield also 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 is also the Vice President and Chief Forensic Examiner at Maryman & Associates, a private company specializing in incident response, digital forensics and investigations. His primary domain is servers, both Windows and Linux. His nearly 20 years of experience includes intrusion investigation, investigation of corporate espionage and employee espionage, deep filesystem analysis, and business email compromise assessment.

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 the ability to perform parallel live file processing while creating a forensic bitstream image. His dissertation, “SPARTA: System for Portable Acquisition With Real-Time Analysis” is available for download https://digitalcommons.uri.edu/oa_diss/1082/.

ACADEMIC POSITIONS

<u>Associate Professor of Technology and Applied Computing Practice,</u> <i>USC Technology and Applied Computing Program (Formerly Information Technology Program)</i>	August 2016 – Present
<u>Senior Lecturer, USC Information Technology Program</u>	July 2013 – July 2016
<u>Lecturer, USC Information Technology Program</u>	August 2007 – July 2013
<u>Part-Time Lecturer, USC Information Technology Program</u>	August 2006 – August 2007

PROFESSIONAL EXPERIENCE

<u>Vice President & Chief Forensics Examiner,</u> <i>Maryman & Associates Inc.</i>	September 2008 – Present
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EDUCATION University of Rhode Island

Ph. D. Computer Science	December 2019
Dissertation Topic: SPARTA: System for Portable Acquisitions with Real-Time Analysis	
Advisor: Dr. Victor Fay-Wolfe, Ph. D.	

EDUCATION University of Southern California

Masters of Science, Computer Science	August 2006
Cyber-Security Specialization, Information Technology Program	December 2005
Bachelor of Science, Computer Engineering & Computer Science	May 2005

OTHER 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

EXPERTISE DOMAINS – TEACHING AND PROFESSIONAL

- Windows Systems Security and Forensics – 2000, XP, Vista, 7, 8/8.1, 10, 11
- Windows Server Security and Forensics – 2003, 2008, 2012, 2016, 2019, 2022
- Linux Server and System Forensics
- Incident Response and Live Forensics
- Database System Forensics
- Networking and Network Security
- Information Security Policy and Management
- Programming and Scripting – C, C++, Java, Python

COURSES TAUGHT (FIRST SEMESTER TAUGHT)

- ENGR 102 – Engineering Freshman Academy (Fall 2014)
- INF 528 – Computer and Network Forensics (Fall 2014)
- ITP 101 – Introduction to Information Technology (Spring 2007)
- ITP 109 – Introduction to Java Programming (Fall 2006)
- ITP 125 – From Hackers to CEOs: Introduction to Information Security (Fall 2010)
- ITP 325 – Ethical Hacking and Systems Defense, formerly Web Security (Fall 2008)
- ITP 370 – Information Security Management (Spring 2011)
- ITP 375 – Digital Forensics (Fall 2010)
- ITP 457 – Network Security (Spring 2007)
- ITP 475 – Advanced Digital Forensics (Spring 2011)
- ITP 477 – Security and Network Forensics (Fall 2006, replaced with ITP 375 and 475)

CURRICULUM DEVELOPMENT

Bachelor's Degree in Intelligence & Cyber Operations – Fall 2017/Spring 2018

I collaborated with Dr. Richard Fliegel towards an interdisciplinary degree called Intelligence and Cyber Operations (INCO). The degree has been added to the USC Catalogue and is offered as of Fall 2018. It currently has over 200 students.

Proposal for a Bachelor's Degree in Information Technology – Spring 2014

I was the lead faculty for a proposal for a Bachelor of Arts Degree in Information Technology for the Information Technology Program. This was the result of a two-year process for drafting the degree in which I led a working group of four ITP faculty members. We profiled every university in the top 50 national rankings of the US News and World report that had a degree offering in Information Technology, Information Science or Informatics at the undergraduate level. We established a common body of knowledge, determined the best fit for ITP's current curriculum and identified new courses for the degree. We created the degree that satisfied University requirements for a Bachelor of Arts while ensuring that the overall degree would be attractive to students outside the Viterbi School of Engineering.

The proposal was submitted to Dean Yortsos in the Spring of 2014. He and the Dean's office were receptive to the proposal, but had concerns about having it within ITP. He gave the proposal to the Computer Science Department. Our original proposal became the framework for the proposal for a Bachelor's Degree in Informatics from the Computer Science Department with substantial similarities to the original proposal, including required ITP courses. This degree has become the Bachelors of Arts in Data Science, which will be rehoused in the Technology and Applied Computing Program.

Proposal for Master's Degree in Digital Forensics – Fall 2012

I was the lead faculty for a proposal drafted for a Master's Degree in Digital Forensics. This was the result of a one-year process in which all universities across the country with graduate degrees were profiled, a common body of knowledge was identified, and a proposal was drafted. The

proposal was first reviewed by the ITP Industrial Advisory Board Subcommittee for Digital Forensics. The final proposal was then presented to Vice Dean Jim Moore for review.

Information Technology Program, Minor in Computer and Digital Forensics – Fall 2012

Created a minor to expand the undergraduate material taught in digital forensics. After the creation of the minor, it was one of the only undergraduate programs in digital forensics on the west coast. This minor complements students' majors and prepares them for careers in digital investigations and cyber incident response. The program added four new courses in digital forensics.

Information Technology Program, Specialization in Computer and Digital Forensics – Fall 2012

This complementary specialization program was created in conjunction with the Minor in Computer and Digital Forensics. The specialization was created for students who did not have enough room in their degree programs or sufficient time to complete the minor but still wanted to learn the material. This specialization remains popular today for students who are introduced to the digital forensics courses late in their academic careers and cannot complete the full minor above.

Information Technology Program, Minor in Applied Computer Security – Fall 2009

Created the first undergraduate minor in computer security at USC. Before the minor, there were three courses in cyber security taught in ITP. The program included five new courses to create a comprehensive program to prepare students for entry-level positions in cyber security. The success of the program led to a substantive increase in company recruitment of students for cyber security positions and other information technology positions from ITP.

COURSES CREATED/AUTHORED

- ITP 102 – Introduction to Creative Information Technologies (Fall 2015)
- ITP 125 – From Hackers to CEOs: Introduction to Information Security (Fall 2009)
- ITP 357 – Enterprise Network Design (Fall 2009)
- ITP 370 – Information Security Management (Fall 2009)
- ITP 375 – Digital Forensics (Fall 2009)
- ITP 425 – Web Application Security (Fall 2009)
- ITP 445 – Macintosh, OSX and iOS Forensics (Co-creator; Fall 2012)
- ITP 446 – Cyber Breach Investigations (Fall 2012)
- ITP 447 – Mobile Device Security and Forensics (Co-creator; Fall 2012)
- ITP 448 – Cyber Litigation Support (Co-creator; Fall 2013)
- ITP 475 – Advanced Digital Forensics (Fall 2012)

COURSES WITH EXTENSIVE REVISION

- ITP 101 – Introduction to Information Technology (Fall 2008; Spring 2014)
The original revision was to remove the textbook and extensively update material. In the spring of 2014, Trina Gregory and I revised the entire course to split the

material into two 2-unit courses, ITP 101 and ITP 102.

- ITP 109 – Introduction to Java Programming (Fall 2008)
I rewrote the curriculum to the course to remove the textbook and make material more accessible to students. I also rewrote all lab and homework assignments.
- ITP 325 – Ethical Hacking and Systems Defense (Fall 2009)
Course was originally titled “Web Security.” I heavily revised course with new material to incorporate into the new Minor in Applied Computer Security. The course became more advanced due to new introductory course requirement
- ITP 457 – Network Security (Fall 2009)
Course was originally designed as a stand-alone course. The course was revised to fit in with two prerequisite courses. This created a substantially more comprehensive class for focusing on network security.
- ITP 477 – Security and Computer Forensics (Fall 2006)
Before this course was officially phased out in 2012 with the creation of the Computer and Digital Forensics minor, this course was the primary course for digital forensics instruction. In my first semester teaching the course in 2006, I completely rewrote the course to update the material to the latest theory, processes and software used in industry.
- INF 528 – Computer and Network Forensics (Fall 2014)
Nine days prior to the first day of classes, I was asked to teach the course. No material had been previously prepared for the course by other faculty. I successfully executed the course, creating all lectures, labs, and exams during that semester.

TEACHING INNOVATIONS

- ENGR 102 – PB&J Competition, Fall 2014
To teach concepts of iterative problem-solving to freshman engineers, I created the Peanut Butter & Jelly Sandwich Competition. The first part was solving the problem, the second part was solution refinement, and the third part was optimizing the solution for execution speed. The result of the competition was over 400 sandwiches donated to a local food bank, students learning about pipeline process and iterative problem solving, and positive publicity from the VSoE Website & Magazine and the USC Facebook page.
- INF 528 – Digital Forensics through DEN, Fall 2014 – Spring 2019
Teaching digital forensics through the Distance Education Network (DEN). This required extensive modification of coursework to support remote students and forego the usage of the cyber security & digital forensics lab maintained by ITP while still maintaining all the learning objectives and course rigor.
- ITP 475 – Moot Court, Fall 2008 – Present
As a capstone to the digital forensics program, students in the Advanced Digital Forensics course are required to participate in a Moot Court exercise that we set up every year with the assistance of the California Superior Courts, the United States Secret Service, and the Los Angeles District Attorney’s Office. This project has

been written about in numerous media outlets.

STUDENT SERVICE

- Faculty Mentor, USC Cyber Security and Forensics Organization (CybOrg) – Fall 2012 – Present
In the fall of 2012, I provided substantive assistance for the original organization creation. The organization focuses on industry connections and relationships for the students pursuing careers in cyber security and digital forensics. I help to organize speakers and panels on a regular basis for the organization. I also continue to provide contacts within my professional network for presenters.
I continue to provide active mentorship to the organization, including meeting with the executive board on a weekly or bi-monthly basis and attending at least two events per year.
- I maintain active relationships with directors, managers and recruiters from the following companies to assist with student recruitment, including helping to arrange evening events and information sessions:
 - EY
 - PwC
 - KPMG
 - Deloitte
 - Stroz Friedberg
 - Mandiant
 - Palo Alto Unit 42
 - Crowdstrike
 - Rapid7
 - Microsoft
- I regularly assist students with resumes, interview preparation, and letters of recommendation for graduate school

SERVICE TO THE INFORMATION TECHNOLOGY PROGRAM

In addition to my regular duties as an Associate Professor of Practice, I provide assistance to the Director and the program in the following areas:

- General advisement – Assisting with choosing a program within ITP and other academic advisement
- Participate in prospective interviews of potential candidates for teaching positions
- Representing ITP to the Engineering Curriculum Committee, Spring 2013 – Spring 2016
- ITP Hiring and Promotion Committee Service – 2014-2015
- Member of ITP hiring committee – Spring 2017, Fall 2024-Spring 2025
- Chaired ITP promotion committees – 2017, 2019, 2020 (x2), 2021
- Member of ITP promotion committees – 2020, 2021, 2022, 2023
- Chaired multiple ITP faculty search committees for Cyber Security and Digital Forensics

Faculty Hiring in 2016, 2017, 2018, 2019, 2020, and 2024

- Representing ITP to the Engineering Faculty Council (EFC), Fall 2018 – Spring 2019
- Member of the Annual Faculty Review (AFR Committee) - 2013-2014
- I created and am the chair of the ITP Industrial Advisory Board Subcommittee on Digital Forensics – Spring 2012 – Spring 2020
 - We meet approximately once per year to discuss curriculum, student recruiting and direction of the program
 - Members include and have included representatives from the following companies and organizations
 - Ernst & Young
 - Pricewaterhouse Coopers
 - Stroz Friedberg
 - Mandiant
 - United States Secret Service
 - US Treasury
 - Bank of America
 - Deloitte
 - Los Angeles District Attorney's Office
- I have recruited and/or mentored the following current and former faculty members
 - Pierson Clair
 - Nathan Greenfield
 - Paulina Grey
 - Jennifer Kassar
 - Benny Forer
 - Mike Cassar
 - Jody Cohn
 - Howard Williamson
 - Caesar Sedek
 - Kaue Menem Arujo Pena (KMAP)
 - Heather Romero
 - John Redmon
 - Gregg Ibbotson
 - Stefan McGregor
 - Grant Derderian
 - Eilrama Betkolia
- Providing major advisement support for Pierson Clair during his first few years of full-time faculty appointment – 2022-2025
- I was the major point of contact at USC for the Department of Homeland Safety (DHS) CyberSkills Management Support Initiative. We have arranged for webinars to be hosted in our classrooms for students interested in careers in DHS and law enforcement through the Cyber Student Volunteer Initiative.

SERVICE TO THE VITERBI SCHOOL OF ENGINEERING

- Member of the Informatics Teaching Faculty Search Committee – Spring 2016
- Panelist for USC Viterbi Scholarship Interviews – Spring 2015, Spring 2016, Spring 2017
- Member of the Viterbi Undergraduate Awards Selection Committee – Spring 2015
- Member of the Teaching Awards Search Committee – Spring 2022, 2023
- Assisted with the revision of ENGR 102, Engineering Freshman Academy – Spring 2015. I assisted Louise Yates by providing a grading rubric for class and a proposed final project based on one Engineering Grand Challenges. The syllabus I provided became the template syllabus for all Freshman Academy sections starting Fall 2015.
- Assisted in arranging a meeting with Dean Yortsos and Mr. Mark Weinberger, Global Chairman & CEO of Ernst & Young on April 3rd, 2015. The meeting was to discuss student recruitment from the entire Viterbi School of Engineering to Ernst & Young. Mr. Weinberger praised the relationship between Ernst & Young and ITP for cyber security, and described it as the model for other University partnerships in cyber security disciplines.
 - We had a follow up meeting in April 2017
- In October of 2014, I was approached by Dr. Katherine Roberts, the Chair of the School of Criminal Justice and Criminalistics at California State University, Los Angeles to see about participating in a grant proposal for a new Forensics Science Center of Excellence. I connected Dr. Roberts with Dr. Shahabi, and we co-authored a proposal for the National Institute of Standards and Technology. While we were ultimately unsuccessful in acquiring the \$20 million grant, the coordination between the two universities and assisting in writing a major portion of the grant was above and beyond my responsibilities as teaching faculty.
- In March of 2014, I was asked by Dr. Cyrus Shahabi to assist with a grant proposal from IMSC for the National Institute of Justice, 2014-3727. I provided the required expertise from a digital forensics perspective for the proposal. While we were ultimately unsuccessful in acquiring the grant, this was beyond my responsibilities as teaching faculty.

SERVICE TO THE UNIVERSITY OF SOUTHERN CALIFORNIA AND LOS ANGELES COMMUNITY

- I have provided assistance and advisement to the USC Information Security Office since 2013. I have been available for phone calls and meetings on an as-needed basis for assistance with digital forensics, including software and hardware assistance.
- I established ITP and USC as an academic alliance member with the Los Angeles Electronic Crimes Task Force, run and maintained by the United States Secret Service in 2009. We have been an active partner and have been an annual host of the spring quarterly meeting since 2012. We were told that USC is among the most active university partnerships in the nation. From 2015 to 2020 (due to COVID), we have hosted the Spring Quarterly meeting of the ECTF, with over 100 members in attendance regularly.

PROGRAM AWARDS AND RECOGNITION

- USC placed #1 out of ten schools across the country in the inaugural Deloitte Cyber Threat Competition, May 2015

- USC placed #2 out of sixteen schools across the country in the 3rd Annual Deloitte Cyber Threat Competition, May 2017
- USC Ranked #6 out of 400 for Best Schools for Cybersecurity by the Ponemon Institute, Sponsored by HP Enterprise Security, February 2014

SELECTED GUEST LECTURES; CONFERENCE PRESENTATIONS AND ORGANIZATION

- The Masters Conference Legal
Los Angeles, CA – February 4, 2025
Panelist – Cyber / Data Security – Responding to Cyber Events
- USC Academic Integrity Week
Los Angeles, CA – October 1, 2024
Co-Presenter – Finding Truth Using Basic Digital Forensics
- Techno Security and Forensics Conference
Pasadena, CA – September 17, 2024
Presenter – DFIR Presentation Skills
- Leech Tishman Cybersecurity Presentation
Los Angeles, CA – September 12th, 2024
Panelist – Navigating the Cyber Storm
- Snell Willmer Presentation
Los Angeles, CA – March 5th, 2024
Co-Presenter – Digital Forensics for Litigators
- Bruin Professionals
Los Angeles, CA – July 9th, 2024
Co-Presenter – What To Know About Data Breaches
- USC CybOrg
Los Angeles, CA – March 20, 2024
Panelist – Professor Panel
- Information Systems Security Association
Santa Monica, CA – October 19, 2022
Presenter – Digital Forensics Incident Preparedness
- American Business Bank
Online – October 5th, 2021
Co-Presenter – Preparing for Digital Forensics
- CalCPA
Pasadena, CA – November 4, 2019
Co-Presenter – Digital Forensics Fundamentals
- Cybersecure SoCal 2019
Los Angeles, CA – October 17, 2019
Co-Presenter – Cybersecurity is a Team Sport
- SecureTheVillage
Online – October 3, 2019

Co-Presenter – Securing the Network: Lessons Learned from Cyber Investigations

- USC-CBIZ Risk Management Symposium
Los Angeles, CA – October 11, 2018
Panel Moderator – Cybersecurity: When Planning May Not Be Enough
- Enfuse 2017
Las Vegas, NV – May 21 – 25, 2017
Joint Presenter (with Pierson Clair) – Forensic Report Writing
- University of Southern California Information Security Summit
Los Angeles, CA – October 30th 2015
Invited Speaker – Security Concerns for Faculty
- 3rd International Workshop on Digital Forensics Curriculum Standards
Philadelphia, PA – August 12th 2015
Attendee and Participant
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – May 22nd 2015
Organizer, Invited Speaker – A Way Too Early Look at Windows 10 Forensics
- Professional Development Workshop for Students at Windward School
Los Angeles, CA – April 8th 2015
Alumni Panelist
- USC Educational Technology Advisory Committee Meeting
Los Angeles, CA – March 12th 2015
Invited Guest to Discuss Security Concerns for Faculty
- University of Southern California Information Security Summit
Los Angeles, CA – October 30th 2014
Invited Speaker – Lessons From the Frontlines
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 23rd 2014
Organizer and Attendee
- Educause
Anaheim, CA - October 16th 2013
Panelist - A Proactive Approach to Data Breach Response
- Digital Forensics Group, US Treasury Inspector General for Tax Administration
Los Angeles, CA - August 8th 2013
Organizer, Invited Speaker – Solid State Drive Forensics and Advanced Topics
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 24th 2013
Organizer, Invited Speaker – Advanced Solid State Topics
- Guest Lecture – American Jewish University
Los Angeles, CA – November 20th 2012
History of Science Guest Lecture – Transistors
- University of Southern California Information Security Summit
Los Angeles, CA - October 22nd 2012

Invited Lunch-time Speaker

- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 18th 2012
Organizer, Invited Speaker – Solid State Drive Acquisitions and Forensics
- Information Systems Security Association, Los Angeles Chapter
Los Angeles, CA - November 18th 2009
Invited Speaker – BitTorrent Forensics
- 20th Century Fox Information Security Meeting
Los Angeles, CA - November 18th 2009
Invited Speaker – BitTorrent Forensics
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 19th 2009
Organizer, Invited Speaker – BitTorrent Forensics

SELECTED MEETINGS & CONFERENCES ATTENDED

- 3rd International Workshop on Digital Forensics Curriculum Standards
Philadelphia, PA – August 12th 2015
- Digital Forensics Research Workshop
Philadelphia, PA – August 9th through 12th, 2015
- Information Systems Security Association One-Day Summit
Los Angeles, CA – June 4th, 2015
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – May 22nd 2015
- Computer and Enterprise Investigations Conference (CEIC)
Las Vegas, NV – May 18th – May 21st 2015
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – March 20th 2015
- White House Cybersecurity Summit
Los Angeles, CA – February 20th 2015
- University of Southern California Information Security Summit
Los Angeles, CA – October 30th 2014
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 23rd 2014
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – March 14th 2014
- High Tech Fraud Symposium
Los Angeles, CA – October 23rd 2014
- Educause
Anaheim, CA - October 16th 2013
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 24th 2013

- Information Systems Security Association One-Day Summit
Los Angeles, CA – May 21st 2013
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – February 22nd 2013
- University of Southern California Information Security Summit
Los Angeles, CA - October 22nd 2012
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 18th 2012
- Information Systems Security Association One-Day Summit
Los Angeles, CA - May 16th, 2012
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – December 2nd 2011
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA – December 3rd 2010
- High Tech Crimes Investigators Association Meeting
Los Angeles, CA – June 25th 2009
- Los Angeles Electronics Crimes Task Force Quarterly Meeting
Los Angeles, CA - May 19th 2009

COMPUTER PROGRAMMING LANGUAGE EXPERIENCE

C/C++, C#, Java, Python, BASIC, SQL, Javascript, HTML, .NET, VMWare (ESX, Workstation, vSphere), Apache, OpenGL, XML

COMPUTER FORENSIC TOOLS EXPERIENCE

Autopsy, Encase, FTK, Axiom, Forensic Explorer, Yara, Intella, Blacklight, WinHex and X-Ways, Intella

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

Secure the Village Leadership Council Member
Information Systems Security Association

MEDIA AND NEWS

- *To test their cybercrime knowledge, USC students take witness stand in virtual courtroom* (May 2020)
<https://news.usc.edu/170055/usc-students-cybercrime-digital-forensics-virtual-courtroom/>
- *USC Viterbi Students Get Their Day in Court* (June 2017)
<https://viterbischool.usc.edu/news/2017/06/usc-viterbi-students-get-day-court/>
- *Nothing But The Truth – Students go to court as digital forensics experts* (May 2016)
<https://viterbi.usc.edu/news/news/2016/advanced-digital-forensics-moot-court.htm>
<https://magazine.viterbi.usc.edu/fall-2016/student-life/nothing-but-the-truth/>
- *Engineering the Perfect PB&J* (Spring 2015)

<https://magazine.viterbi.usc.edu/spring-2015-2/student-life/engineering-the-perfect-pbj/>
<http://viterbivoices.usc.edu/hannah/a-glimpse-of-freshman-academy/>
<https://www.youtube.com/watch?reload=9&v=rFdmrNwQSM>

INDIVIDUAL HONORS & AWARDS

- USC VSoE Dean's Award for Innovation in Teaching and Education - 2021
- Certificate of Appreciation, Information Systems Security Association – 2011
- Certificate of Appreciation, United States Secret Service – 2009
- Special recognition for teaching excellence, Information Technology Program – December 2008