

Curriculum Vitae For Dr. Daniel Massey

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Areas of Expertise:

Cybersecurity, Computer Networks and Security, Cyber Physical Systems

Areas of Expertise:

Domain Name System (DNS), Cybersecurity, Computer Networks and Security

Professional Experience

- 2020 – present Project Lead - “Operate Through” - 5G to NextG Initiative, U.S.
Office of the Under Secretary of Defense for Research & Engineering
- 2017 – present Professor, Computer Science, University of Colorado Boulder
- 2013–2017 Program Manager, U.S. Department. of Homeland Security,
Science & Technology Directorate, Cyber Security Division
- 2008-2013 Associate Professor, Computer Science, Colorado State University
- 2004-2008 Assistant Professor, Computer Science, Colorado State University
- 2003-2004 Research Assistant Professor, Computer Science, Univ. of Southern California
- 2002-2004 Project Leader, University of Southern California Information Sciences Institute
- 2000-2002 Computer Scientist, Univ. of Southern California Information Sciences Institute
- 1997-1999 Consultant, Xerox Palo Alto Research Center (PARC)
- 1992-1994 Technical Editor, Laurel Technical Services
- 1991-1994 Programmer/Analyst, San Diego Supercomputer Center (SDSC)

Education

- PhD. in Computer Science, University of California Los Angeles (UCLA), 2001
- M.S. in Computer Science, University of California Los Angeles (UCLA), 1996
- M.A. in Applied Mathematics, University of California San Diego (UCSD), 1993
- B.A. in Mathematics and Computer Science, University of California San Diego (UCSD), 1990

Selected Publications

1. R. Arends, R. Austein, M. Larson, D. Massey and S. Rose, “DNS Security Introduction and Requirements”, RFC 4033, March 2005
2. J. Gersch, D. Massey and C. Papadopoulos. “Incremental Deployment Strategies for Effective Detection and Prevention of BGP Origin Hijacks”. ICDCS 2014, Madrid, Spain, July 2014.
3. Eric Osterweil, Shane Amante, Danny McPherson, Dan Massey, “The Great IPv4 Land Grab: Resource Certification for the IPv4 Grey Market”, Tenth ACM Workshop on SIGCOMM Hot Topics in Networks (HotNets-X), November 2011
4. S. Dibenedetto, C. Papadopoulos and D. Massey. “Routing Policies in Named Data” Networking. ACM SIGCOMM Workshop on Information-Centric Networking, Toronto, Canada, Aug. 2011.

Over 100 publications on cybersecurity and computer networks.

Boards and Volunteer Activities

2018 – present Co-Founder and Chair, Neutral Vehicle Consortium. <https://www.neutralvehicle.com>

2018 – present Co-Founder and Chair, Rocky Mountain Consortium for Cybersecurity Education
<http://www.rmccce.org>

2017 – present Computer Science Advisory Board Member Adams12 School District

2014 – present CyberPatriot Founding Coach and Advisor, St. Vrain Valley School District,
<https://www.uscyberpatriot.org>

2017 – 2019 Selection Committee International Applied Networking Research Prize <https://irtf.org/anrp/>

2017 – 2018 Cybersecurity Lead, Colorado Department of Economic Development DreamBig STEM events in Eagle and Fremont Counties **Recent Keynotes, Invited Lectures, and Panels**

- 5G Cybersecurity Issues and Challenges, Panel Chair, Applied Computer Security Applications Conference (ACSAC), December 2020.
https://www.openconf.org/acsac2020/modules/request.php?module=oc_program&action=page.php&id=6
- Eight Big Ideas in Cybersecurity, K-12 Cybersecurity Curriculum Framework Videos, December 2019 <https://cryptologicfoundation.org/visit/goal/cybersecurity-curriculum-frameworkvideos.html>
- Panelist, “Your Car, Your Data”, AAPEX, Las Vegas, Nevada, November 2019
<https://www.aapexshow.com/news/2019/10/aapex-2019-to-activate-industry-in-fight-for-access-and-control-of-vehicle-data/>
- Invited Speaker, “What Fleet Executives Must Know”, Connected Fleets – Europe, May 2019
<https://www.fleeteurope.com/en/connected/smart-mobility/europe/features/open-systemsofferbetter-cybersecurity>
- Panelist, “2018 NSF Cybersecurity Summit for Large Facilities and Cyberinfrastructure, Alexandria, VA August 23, 2018
- Invited Speaker, European Parliament, Secure Data Access for Vehicles, Brussels, Belgium, April 2018
- Invited Speaker, Video Highlighting Achievements of the U.S. Department of Homeland Security Cybersecurity Program, Filmed March 2018 in Washington D.C.
- Invited Speaker, European Parliament, Cybersecurity For Vehicles, Brussels, Belgium, February 2018

Over 100 keynotes, invited lectures, and panels at events organized by groups ranging from the Society of Automotive Engineers to the Internet Engineering Task Force to multiple government agencies.