

LANCE J. HOFFMAN
Professor Emeritus
Computer Science Department
The George Washington University
Washington, D. C. 20052
lancehoffman.cyber@gmail.com

Education

B. S. Mathematics, Carnegie Institute of Technology (now Carnegie Mellon University) 1964
M. S. Computer Science, Stanford University 1967
Ph. D. Computer Science, Stanford University 1970

Faculty Appointments

Distinguished Research Professor, The George Washington University, School of Engineering and Applied Science, 2000-2022
Professor, The George Washington University, Computer Science (formerly Electrical Engineering and Computer Science) Department, 1985-2002
Visiting Professor, Queensland University of Technology, Information Security Research Center, 1992
Assistant Professor, University of California, Department of Electrical Engineering and Computer Science, Berkeley, California, 1970-1977

Research Appointments

Director, Cyber Security Policy and Research Institute, The George Washington University, 2009-2016
Principal investigator for \$20 million CyberCorps scholarship program that has sent over 100 students to work for federal government since 2002

Books Authored or Edited

Building in Big Brother (Editor), Springer-Verlag, New York, N. Y., 1995.
Rogue Programs: Viruses, Worms, and Trojan Horses (Editor), Van Nostrand Reinhold, New York, N. Y., 1990
Computers and Privacy in the Next Decade (Editor), Academic Press, New York, N. Y., 1980.
Modern Methods for Computer Privacy and Security, Prentice-Hall, Inc., Englewood Cliffs, N. J., 1977.
Security and Privacy in Computer Systems (Editor), Melville Publishing Co (Wiley), Los Angeles, California, 1973.

Selected Papers and Reports

- “How to defuse a simmering crypto war”, Christian Science Monitor Passcode, March 11, 2015, <http://www.csmonitor.com/World/Passcode/Passcode-Voices/2015/0311/Opinion-How-to-defuse-a-simmering-crypto-war>
- “The Golden Key in the Smartphone Encryption Debate”, Letter to Editor, Washington Post, October 7, 2014, http://www.washingtonpost.com/opinions/the-golden-key-in-the-smartphone-encryption-debate/2014/10/07/26f7129e-4cae-11e4-877c-335b53ffe736_story.html
- Lance J. Hoffman, Diana L. Burley, Costis Toregas, "Holistically Building the Cybersecurity Workforce", IEEE Security & Privacy vol. 10, no. 2 (March/April 2012), pp. 33-39. <http://doi.ieeecomputersociety.org/10.1109/MSP.2011.181>.
- (with Lisa Ugelow), Fighting on A New Battlefield Armed With Old Laws: How to Monitor Terrorism in the Virtual World, University of Pennsylvania Journal of Constitutional Law, vol. 14, no. 4, March 2012.

- (with Tim Rosenberg) "Taking Networks on the Road: Portable Solutions for Security Educators," *IEEE Security & Privacy*, Jan.-Feb. 2006, pp. 64-67.
- (with Ronald Dodge, Timothy Rosenberg, and Dan Ragsdale) "Exploring a National Cyber Security Exercise for Universities", *IEEE Security & Privacy*, vol. 3, No.5, Sept.-Oct. 2005, pp. 27-33.
- (with Lorrie Cranor), "Internet Voting for Public Officials: Introduction", *Communications of the ACM*, 44, 1 (January 2001), pp. 69-71.
- (with F. Ali, S. Heckler, and A. Huybrechts) "Cryptography Policy", *Communications of the ACM* 37, 9 (September 1994), pp. 109-117.
- (with W. F. Miller) "Getting a Personal Dossier from a Statistical Data Bank", *Datamation*, May 1970.
- "Computers and Privacy: A Survey", *Computing Surveys*, Vol. 1, No. 2 (June 1969), pp. 85-103.

Selected Panels and Invited Talks

2016 "Broader Implications of Apple vs. the FBI for Cyber Security and Privacy", GW Law School
 2010 "Cyberwar: Is Congress Preparing for the Common Defense?", State of the Net Conference, Washington.
 2008 Privacy and Anonymity in the High-Tech Age, American Bar Association Inaugural National Institute on Computing and the Law
 2001 International Symposium on Network Economy and Economic Governance, Beijing, China
 2001 "e-Government", keynote address, Conference on e-Government in the Baltic Sea Region, Schwerin, Germany
 2001 "Regulation in the Internet", Global Forum, Naples, Italy
 1999 Testimony before U. S. Senate Commerce Committee on encryption policy
 1997 Invited speaker, U. S. Congress Internet Caucus, "Privacy Issues Unique to the Internet"
 1996-1997 "Security and Privacy Policy Issues in Emerging National and Global Networks",
 Brookings Institution
 1995 Keynote speaker, "Encryption Policy for the Global Information Infrastructure", International Federation of Information Processing Societies, Capetown, South Africa
 1992 Invited speaker, Vulnerability, International Federation of Information Processing Congress, Madrid
 1979-1980 Distinguished Visitor, Institute of Electrical and Electronics Engineers (IEEE) Computer Society
 1972-1973 Association for Computing Machinery National Lecturer on Computer Security and Privacy

Major Meetings and Events Organized and Facilitated

2022 CyberMed
 2015 South Asia Information and Cyber Security Visiting Graduate Student Seminar (with Sandia National Laboratories)
 2015-2016 University Seminar on Internet Freedom and Governance
 2013 NSF workshop on Social Sciences and Computer Science in Cybersecurity
 2012 NSF Secure and Trustworthy Computing Principal Investigators Meeting
 2010 NSF workshop on Information Assurance Education and Workforce Development
 1995 Moderator, American Electronics Association/Software Publishers Association Cryptography Policy Workshop
 1991-1992 General Chair, The Second Conference on Computers, Freedom, and Privacy, Washington
 1981 Co-organizer, American Bar Association/American Federation of Information Processing Societies (AFIPS) National Symposium on Personal Privacy and Information Technology, Amelia Island, Fla.
 1979 Organizer, AFIPS Asilomar Conference on Computers and Privacy in the Next Decade

Selected Honors

2016-present Member, Cyber Security Hall of Fame
1995-present Fellow, Association for Computing Machinery

Courses Taught

Electronic Commerce, Information Warfare, Cryptography, Information Policy, Technical Methods for Computer Security, Computer Viruses, Privacy in the Computer Age, Programming Techniques and Data Structures, Assembly Language, Introduction to Computer Programming, Operating Systems, Computers and Society, Risk Analysis

Selected Public Sector Consulting

United Nations, Training diplomats on Internet governance
Internal Revenue Service. Privacy implications of new system design.
National Science Foundation. Advice on reports for the National Science Board; site visits to evaluate research work done by grantees.
U. S. Congress, Office of Technology Assessment. Security and privacy considerations for a national research and education network.
Social Security Administration. Convened and managed task force of lawyers, auditors, and computer specialists on privacy and security.
National Bureau of Standards (now National Institute of Standards and Technology). Technology analysis for federal risk assessment standards.
Federal Trade Commission. Consultant to an investigatory team.
SEARCH Group, Inc.. Developed audit procedures for criminal justice

Selected Advisory Committees and Public Service

Elected Town Councilmember, Town of Chevy Chase, Maryland
Department of Homeland Security, Data Privacy and Integrity
Federal Trade Commission, Online Access and Security
IBM Advisory Board on Privacy and Technology
California Assembly Committee on Statewide Information Policy
Chair, IEEE Committee on Communications and Information Policy, Information Security Subcommittee
International Board of Editors, Computers and Security

Sample of Private Sector Consulting

Riptech, Inc., Technical Advisory Board (until acquired by Symantec)
California, Washington, Boston law firms. Expert consultant, intellectual property cases
IBM Corporation. Preparation of and performance in a multi-city lecture tour to energize customers, prospects, and employees about computer security. This involved lectures, meetings with clients, prospects, and employees, and interviews with the media.
Software Publishers Association. Produced a study of foreign and domestic availability of cryptographic products and demand. Gave strategic advice regarding lobbying effort to influence government policy.
Ernst and Whinney. Made technical recommendations on risk analysis and contingency planning.