

DEBORAH HURLEY

PROFESSIONAL/WORK EXPERIENCE

2016 – Present Adjunct Professor of the Practice of Computer Science, Department of Computer Science, Brown University, Providence, Rhode Island

2015 – Present Senior ICT Expert, Infrastructure Advisory Panel, Pacific Region Infrastructure Facility, Sydney, Australia

Advising on economic infrastructure development and maintenance in Pacific Island Countries (PICs), through deeper coordination to maximize economic, social and environmental improvements and to address PICs challenges of small economies, thinly spread populations over large areas and limited human and financial resources.

2013 – Present Fellow, Institute for Quantitative Social Science, Harvard University, Cambridge, Massachusetts

Researching interdisciplinary social science problems, focusing on the development and implementation of advanced science and technologies to improve economies and societies around the globe.

1996 – Present Consultant, Advanced Science and Technology Policy

Consulting on emerging issues in advanced science and technology policy, including information and communication policy, cybersecurity, privacy and human rights in the information society, with governments, non-governmental organizations, international organizations, foundations and universities. Clients include the Asian Development Bank, the Office of the Privacy Commissioner of Canada, the MacArthur Foundation and the International Centre for Human Rights and Democratic Development.

1996 – Present Consultant, Civil Society Governance and Operations

Consulting with international and national civil society organizations on improvement of governance and operations, including participation in governmental, regional, and international policy making.

1997 – 2002 Director, Harvard Information Infrastructure Project (HIIP), Harvard University, Cambridge, Massachusetts
Senior Research Associate, Belfer Center for Science and International Affairs (BCSIA), John F. Kennedy School of Government, Harvard University
Senior Research Associate, Center for Business and Government (CBG), John F. Kennedy School of Government, Harvard University
Adjunct Lecturer in Public Policy, John F. Kennedy School of Government, Harvard University

Expanded scope and reach of HIIP, as the executive and research director of Harvard's information and communications policy research program. Established HIIP Research Fellows Program, launched HIIP Seminar, Harvard University Faculty Seminar on Information Policy and annual HIIP Country Focus, created new information policy courses. Raised funding for HIIP, initiated and carried out research on a

wide range of information policy topics, including governance, civil liberties, security, ecommerce, and advanced communications policy, wrote reports, scholarly articles and chapters, edited books, reports, and monographs, engaged scholars and experts, organized research teams, selected annual international HIIP Fellows, organized conferences and other events, taught graduate and executive education courses, supervised and hired HIIP staff, carried out management and administration of HIIP.

1988 – 1996 Principal Administrator (1993 – 1996) and Administrator (1988 – 1993), Directorate for Science, Technology and Industry (DSTI), Organization for Economic Cooperation and Development (OECD), Paris, France

Identified emerging legal, economic, social and technological issues related to information and communications technologies, biotechnology, environmental and energy technologies, technology policy, and other advanced technology fields. For Information, Computer and Communications Policy (ICCP) Division, raised and researched new issues related to protection of personal data and privacy, security of information systems, cryptography, and protection of intellectual property. Organized annual meetings on protection of personal data and privacy, including reviews of the OECD *Guidelines for the Protection of Privacy and Transborder Flows of Personal Data*, privacy enhancing technologies, protection of medical data, and rule-making related to privacy, such as legislation and its implementation and enforcement at regional, national and sub-national levels, private sector codes of conduct, and standards. Wrote seminal report on information security for the OECD member nations, responsible for drafting, negotiation and adoption by OECD member countries of the OECD *Guidelines for the Security of Information Systems*. Initiated OECD activities on cryptography technologies and policy. For Science and Technology Policy (STP) Division, launched OECD Working Group on Innovation and Technology Policy and related work on science and technology policy, including national systems of innovation, international cooperation in research and development, foreign access to national science and technology programs, nanotechnology, and technology foresight. Carried out activities on intellectual property protection and technology transfer of biotechnology and the effects of relevant international treaty obligations, and the development of new environmental and energy technologies to respond to global climate change.

1983 – 1988 Attorney, Hinckley, Allen & Snyder, Providence, Rhode Island

Practiced computer and communications law, intellectual property law, including copyright, trade secret and trademark law, and electronic publishing law, representing clients in registration, licensing and infringement matters; corporate law; and commercial real estate law.

EDUCATION

J.D., 1983, UCLA School of Law, Los Angeles, California

Activities: Law Review

A.B., 1978, University of California at Berkeley, Berkeley, California

Activities: Coxswain, Men's Crew

HONORS AND AWARDS

2002, Namur Award, a biennial award of the International Federation for Information Processing (IFIP), for outstanding contributions, with international impact, to awareness of the social implications of information technology.

1999, Finalist, World Technology Awards, selected, following a global search, as one of seven finalists in the Policy category of the inaugural World Technology Awards, created to honor those innovators whose work is of the greatest likely long-term significance for the benefit of business and society.

1989 – 1990, Fulbright Award to undertake a study of intellectual property protection and technology transfer in Korea.

1983, Nathan Burkan Competition sponsored by ASCAP, second prize, UCLA, for article *Right of Publicity and Choice of Laws*.

1974 – 1978, Chapin-Herron Scholarship, Aram Torossian Memorial Scholarship, Jesse Koshland Scholarship, Louis and Emma Cavalier Scholarship, California State Scholarship, National Honor Students Society.

BOARD APPOINTMENTS

Editorial Board, Journal of Technology Science, Harvard University, <http://techscience.org>, May 2015 - Present.

Treasurer, IDEAs Against Violence, Massachusetts, www.ideasagainstviolence.org, July 2014 – present.

Chair (2006 – 2015), Secretary (2004 – 06) and Member (2000 – 2015) of Board of Directors and Member of Advisory Board (1996 – present), Electronic Privacy Information Center, Washington DC, www.epic.org.

Member, Asia-Pacific Privacy Charter Council, Cyberspace Law and Policy Centre, Faculty of Law, University of New South Wales, Sydney, New South Wales, Australia, September 2003 – present.

Member, International Advisory Board, Privacy International, London, United Kingdom, March 2002 (Founding Member) – present.

Member, Advisory Committee on International Science, American Association for the Advancement of Science (AAAS), Washington DC, 2000 – 2003.

Member, Board of Directors, Belfer Center for Science and International Affairs (BCSIA), John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, August 1997 – March 2002.

PUBLIC SERVICE (SELECTED)

Member, Working Group, RDA/NISO Privacy Implications of Research Data Sets, Research Data Alliance (RDA) and National Information Standards Organization (NISO), January 2016 – present.

Member, Working Group, IEEE Standard for Privacy and Security Architecture for Consumer Wireless Devices (COM/SDB/P1912 WG), Institute of Electrical and Electronics Engineers (IEEE), www.ieee.org, March 2015 – present.

Member, Working Group, NISO Consensus Framework to Support Patron Privacy in Digital Library and Information Systems, National Information Standards Organization (NISO), March – September 2015.

Moderator, Congressional Briefing on Protection of Personal Data and Privacy, between Members of Congress and Data Protection Commissioners from Europe, Canada, and Mexico, U.S. Capitol, Washington DC, March 5, 2014.

Peer Reviewer, World Bank, ICT Sector Support in Somalia Project Concept Note, Strategic Initiative for Somalia Re-engagement, World Bank, September 2013.

Member, International Fact-Finding Team on Tunisia, Human Rights and the Information Society, organized by the International Federation for Human Rights (FIDH), January – May 2005.

Member, Working Group on Public/Private Partnerships, Anti-Terrorism Advisory Council (ATAC), Commonwealth of Massachusetts, 2002 – 2006, www.justice.gov/usao/ma/antiterrorism/atac.html.

Peer Reviewer, Evidence Report / Technology Assessment, “Bioterrorism: Use of Information Technologies and Decision Support Systems,” by UCSF-Stanford Evidence-based Practice Center, sponsored by the Agency for Healthcare Research and Quality, U.S. Department of Health and Human Services, December 2001 – January 2002, www.ahrq.gov/clinic/epcix.htm.

Member, Committee on Critical Information Infrastructure Protection and the Law, Computer Science and Telecommunications Board (CSTB), National Research Council, National Academy of Sciences, Washington DC, 2001 – 2002.

Member, Advisory Committee to the U.S. State Department on International Communications and Information Policy (ACICIP) and Co-Chair of its Working Group on Security, Encryption and Export Controls, Washington DC, 1997 – 2005.

Lecturer, “Intellectual Property Policy and International Negotiations,” sponsored by the International Law Institute and Georgetown University (instructing government officials from developing countries in the intellectual property laws of developed nations and the contrast of these laws with intellectual property laws and technology transfer rules of developing countries), Washington DC, August 1987.

Lecturer, “International Technology Transfer Negotiation and Policy for Development,” sponsored by the International Law Institute, United Nations Centre for Science and Technology for Development, and Georgetown University (for government officials from developing countries), Washington DC, July 1987.

Consultant to United Nations Industrial Development Organization (UNIDO), Vienna, Austria, on Technology Transfers to Developing Countries, November 1986.

PUBLICATIONS (SELECTED)

“A Conceptual Framework for Specialized Senior Secondary Education in Mongolia,” (June 2015). Available at SSRN: <http://ssrn.com/abstract=2752126>.

"Taking the Long Way Home: The Human Right of Privacy," in Marc Rotenberg, Julia Horwitz, and Jeramie Scott, eds., *Privacy in the Modern Age: The Search for Solutions* (The New Press, 2015).

Pole Star: Human Rights in the Information Society (International Centre for Human Rights and Democratic Development, 2003), also translated into French (*L'étoile polaire: les droits humains dans la société de l'information*), Spanish (*Estrella polar: Los derechos humanos en la sociedad de la información*) and Arabic.

Critical Information Infrastructure Protection and the Law: An Overview of Key Issues, Stewart D. Personick and Cynthia A. Patterson, eds., Committee on Critical Information Infrastructure Protection and the Law (National Academies Press, 2003), www.nap.edu/catalog.php?record_id=10685.

"The New Spatial Order? Technology and Urban Development," Chairman's Roundtable Dialog, Lincoln Institute of Land Policy, June 2001.

"Foreign Policy in the Ubiquitous Information Environment," *The State of Science at the Department of State*, American Association for the Advancement of Science (AAAS), February 2001.

"Globalization of Communications" and "Information Policy and Governance," co-authored with Viktor Mayer-Schönberger, in John Donahue and Joseph Nye, Jr., eds., *Governance in a Globalizing World* (Brookings Institution Press, 2000).

"The Global Internet: Privacy, Security, and Civil Liberties," *DRCLAS News*, the official newsletter of the David Rockefeller Center for Latin American Studies, Harvard University, Winter 1999.

The First 100 Feet: Options for Internet and Broadband Access, edited with James H. Keller (The MIT Press, 1999).

"Security and Privacy Laws: The Showstoppers of the Global Information Society" in *Masters of the Wired World* (Pitman Publishing, 1999).

TEACHING

GRADUATE TEACHING

Governance in the Digital Age (STP-305), John F. Kennedy School of Government, Harvard University, Autumn 2001.

Information and Autonomy: Relationship Between Individual and Government in the Digital Age (STP-305), John F. Kennedy School of Government, Harvard University, Autumn 2000 and Spring 2000.

Business and the Internet: Strategy, Law and Policy (STP-307), John F. Kennedy School of Government, Harvard University, Spring 1999 and Spring 1998.

EXECUTIVE EDUCATION (SELECTED)

Speaker, "War: Cyberterrorism, Privacy, Citizenship and Security Issues," and Lecturer/Instructor, "New Communication Technologies: Implications for the Future of Education and Democracy," Media and American Democracy Institute (secondary school civics, politics, and history teachers from throughout the United States), organized by the Harvard Graduate School of Education and the Joan Shorenstein Center on the Press, Politics and Public Policy, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, July 21 – 27, 2002 (lectured in this annual program 1998 – 2002).

Lecturer, "International Standards and Negotiations for Telecommunications: Database Security, Wireless and Satellite Compatibility Issues," Foreign Service Institute on Environment, Science, Technology and Health and U.S. Foreign Policy, U.S. Department of State (organized by the American Association for the Advancement of Science), George P. Shultz National Foreign Affairs Training Center (NFATC), Arlington, Virginia, June 24 – 28, 2002.

Faculty, "Technology and Public Policy," Frye Leadership Institute, organized by the Council on Library and Information Resources, EDUCAUSE, and Emory University, Atlanta, Georgia, June 4, 2002.

Instructor, "Information Technology: E-Governance," "Information Technology: E-Commerce," and "Information Technology: Implications for Kuwait and the Gulf," Globalization, the Management of Change, and Security in the Gulf: An Executive Program for Kuwait, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, April 7 – 12, 2002.

Speaker, "Privacy and Security," Media and American Democracy Institute, organized by the Harvard Graduate School of Education and the Joan Shorenstein Center on the Press, Politics and Public Policy, John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, July 27, 2001.

Instructor, "The Ubiquitous Information Environment: Opportunities and Challenges," and "Formulating Information Policy," Executive Program on Budgeting and Financial Management in the Public Sector (program for government officials from developing countries), John F. Kennedy School of Government, Harvard University, Cambridge, Massachusetts, June 24 – July 27, 2001.

Instructor, "Egovernance," "Ecommerce," and "Information Technology and Policy in Kuwait," Conference on Economic and Security Challenges of Globalization, organized by the John F. Kennedy School of Government, Harvard University, and the Kuwait Foundation for the Advancement of Science (KFAS), Kuwait City, Kuwait, June 11 – 13, 2001.

Faculty, "Public Policy and Higher Education" and "Government Information Policy," Frye Leadership Institute, organized by the Council on Library and Information Resources, EDUCAUSE, and Emory University, Atlanta, Georgia, June 8, 2001.

Lecturer/Instructor, "Information Media: Opportunities and Challenges," and "Privacy and Security," Media and American Democracy Institute, organized by the Harvard Graduate School of Education and the Joan Shorenstein Center on the Press, Politics and Public Policy, John F. Kennedy School of Government, Harvard University, Cambridge Massachusetts, June 2000.

Faculty, "Government Information Policy and its Influence on Access to Information Within Higher Education," Frye Leadership Institute, organized by the Council on Library and Information Resources, EDUCAUSE, and Emory University, Atlanta, Georgia, June 8, 2000.

Speaker, "Formulating Information Policy," Program on Management and Leadership of Change (for senior government officials and executives from Saudi Arabia), John F. Kennedy School of Government, Cambridge, Massachusetts, March 24, 2000.

TEACHING CASES

"CONNECTING CANADIANS: Canada's Community Access Program, A Case Study of Government Strategic Investment on the Internet," researched and written by Zachary Tumin, Research Affiliate, John F. Kennedy School of Government, under the direction of Professor Deborah Hurley, Director, Harvard Information Infrastructure Project, 2000.

"CANADA'S STRATEGY FOR THE INFORMATION HIGHWAY," researched and written by Eli Turk, Research Fellow, Harvard Information Infrastructure Project, under the direction of Professor Deborah Hurley, Director, Harvard Information Infrastructure Project, 1999.

CHAIRMANSHIPS

Chair, Our Data, Our Lives Conference, organized by the Public Voice, Hilton Warsaw Hotel and Convention Center, Warsaw, Poland, September 24, 2013, www.thepublicvoice.org/events/warsaw13.

Chair, ITU WSIS Thematic Meeting on Cybersecurity, International Telecommunications Union (ITU), Geneva, Switzerland, June 28 – July 1, 2005, www.itu.int/osg/spu/cybersecurity.

Chair, Public Voice Briefing, "WSIS and Civil Society: Next Steps After Geneva," Washington DC, January 16, 2004, www.thepublicvoice.org.

Chair, International Telecommunications Union (ITU) Strategic Planning Workshop on Creating Trust in Critical Network Infrastructures, Seoul, Korea, May 20 – 22, 2002, www.itu.int/osg/spu/ni/security.

Chair, Forum on New Technology, the Information Commons, and the Future of Libraries, organized by the Office for Information Technology Policy, American Library Association, Wye River, Maryland, November 2 – 4, 2001.

Chair, International Telecommunications Union (ITU) Strategic Planning Workshop on the Regulatory Implications of Broadband, ITU, Geneva, Switzerland, May 2 – 4, 2001, www.itu.int/osg/sec/spu/ni/broadband/index.html.

Chair, CFP2001: The Eleventh Conference on Computers, Freedom and Privacy, Association for Computing Machinery (ACM), Hyatt Regency, Cambridge, Massachusetts, March 6 – 9, 2001 (also Member, Steering Committee, 2000 – 2014, Fundraising Chair, CFP2007, and Member, Program Committee, CFP2011, CFP2009, CFP1999, CFP1998, CFP1997, CFP1996), www.cfp.org.