Assessing Research Security Efforts in Higher Education: Experts Meeting and Workshop Series

Committee

Christine H. Fox

Chair

The Honorable Christine Fox is a Senior Fellow at the Johns Hopkins University Applied Physics Laboratory. She also serves on many governance and advisory boards for both government and private industry including the National Infrastructure Advisory Board, the Strategic Competitive Studies Project, the Atlantic Council, and Palantir Technologies. Previously, she was the Assistant Director for Policy and Analysis at JHU/APL, a posi¬tion she held from 2014 to early 2022. Before joining APL, Fox served as Acting Deputy Secretary of Defense from 2013 to 2014 and as Director of Cost Assessment and Program Evaluation (CAPE) from 2009-2013. As Director, CAPE, Fox served as chief analyst to the Secretary of Defense. Prior to her DoD positions, she served as president of the Center for Naval Analyses from 2005 to 2009, after working there as a research analyst and manager since 1981. Fox holds a bachelor and Master of Science degree from George Mason University.

Deanna Caputo

Member

Deanna D. Caputo is Chief Scientist for Insider Threat Capabilities and Senior Principal Behavioral Psychologist at the MITRE Corporation, applying deep expertise in the behavioral sciences to insider risk and threat efforts in government and critical infrastructure industries, including higher education. Deanna is an internationally recognized expert in insider threat, and the intersection of cybersecurity and behavioral science. She has 30 years of experience designing, conducting, and analyzing research with human participants using experimental, quantitative, and qualitative analyses. In 2008 she built and led MITRE’s Human Behavior and Cybersecurity capability and team focused on insider risk, usable security/technology adoption, cyber risk perceptions/awareness, and cybersecurity exercise assessment.

Caputo built and now leads MITRE’s Insider Threat Research and Solutions Capability and multi-disciplinary team. She created and pioneered development of Insider Threat applied research with 20 IP disclosures, and an air-gapped, secure MITRE Insider Threat Lab. She uses behavioral methodologies and analytics to reduce insider threats by analyzing how human behavior manifests in human, organizational, and cyber sensors, and developing solutions to identify and change employee attitudes, intentions, and/or behaviors. Caputo holds a bachelor’s in psychology from Santa Clara University and doctorate in social and personality psychology from Cornell University.

Amanda Humphrey

Member

Amanda Humphrey is Co-Director, SECURE and Chief Research Operations Officer for Northeastern University. Humphrey oversees the research security, export compliance, and training programs, as well as contributing to compliance and operational objectives for the university. Humphrey is an active member of the Federal Demonstration Partnership (FDP), National Council of University Research Administrators (NCURA), and the Council of Governmental Relations (COGR). She received an NCURA Global Fellowship in 2019 and visited Aalto University in Finland. Humphrey holds the designation of Certified Research Administrator. She has degrees from Smith College, University College London, and Northeastern University, where she worked full-time while completing her Master of Business Administration.

Bruce Jones

Member

Bruce A. Jones is the senior Vice President for Research at Howard University. Jones holds more than 30 years of academic and administrative experience in higher education and the nonprofit sector. Over the course of his career, he has held two Endowed Chair Professorships. As the Ewing Marion Kauffman Endowed Chair for Teaching and Leadership at the University of Missouri he engaged in statewide research on best leadership practices in education reform in partnership with the Missouri State Department of Education, Ewing Marion Kauffman Foundation and the Danforth Foundation. At the University of Missouri System level, Jones founded and led the Consortium for Educational Policy Analysis (CEPA), which was housed on three campuses of the University of Missouri System. Through his research at CEPA and with the support of the Peter Herschend Foundation, Ewing Marion Kauffman Foundation, the Hall Family Foundation and the Danforth Foundation, he launched Missouri’s first statewide comprehensive assessment of student achievement. At the University of South Florida (USF), Jones served as the David C. Anchin Endowed Professor of Education and Director of the David C. Anchin Center. Under his leadership the external grant portfolio of the David C. Anchin Center grew from an estimated $625,000 when he arrived at USF to a record high of more than $30 million. Jones also served as the Associate Dean for Research in the College of Education. At the University of Houston (main campus), Jones served as Professor and Vice Provost for Academic Programs and Dean of the Graduate School. Prior to joining the academy, Jones worked extensively with philanthropic institutions on program funding strategies, strategic planning, evaluation and executive/board decision-making. Jones currently serves on the board of the Northern Israel Center for the Arts and Technology and has served on the boards of Family Services America; the Alliance for Children and Families; the National Association of Partners in Education and the National Policy Board in Educational Administration. Jones holds a Ph.D. in Political Science from Columbia University in New York City.

Benjamin F. Jones

Member

Benjamin F. Jones, Ph.D., M.Phil., is the Gordon and Llura Gund Family Professor of Entrepreneurship and a Professor of Strategy at Northwestern Kellogg School of Management. An economist by training, Jones studies the sources of economic growth in advanced economies, with an emphasis on innovation, entrepreneurship, and scientific progress. He also studies global economic development, including the roles of education, climate, and national leadership in explaining the wealth and poverty of nations. His research has appeared in journals such as Science, the Quarterly Journal of Economics, and the American Economic Review and has been profiled in media outlets such as the Wall Street Journal, the Economist, and The New Yorker.

A former Rhodes Scholar, Jones served in 2010-2011 as the senior economist for macroeconomics for the White House Council of Economic Advisers and earlier served in the U.S. Department of the Treasury.

Jones is a non-resident senior fellow of the Brookings Institution, a research associate of the National Bureau of Economic Research (NBER), where he co-directs the Innovation Policy Working Group, a senior fellow of the Institute for Progress, and a member of the Council on Foreign Relations (CFR).

Alan Kohler

Member

Alan E. Kohler, Jr. is the President of Pamir Consulting. He retired from the FBI in 2023 after 27 years dedicated to counterintelligence and national security matters. His career included every role a special agent can have within the Counterintelligence Program of the FBI, starting as a street agent in Washington, D.C. and finishing in executive roles including Assistant Director of the Counterintelligence Division and Acting Executive Assistant Director for the National Security Branch. As an executive, Kohler led the FBI’s effort to protect critical research and engaged extensively with universities and associations across the country. Kohler is a recipient of the Attorney General’s Award for Exceptional Service, the FBI Director’s Award for Outstanding Counterintelligence Investigation, and the ODNI’s George Washington Spymaster Award for lifetime achievement. He holds M.S. and B.S. degrees in Ceramic Engineering from Rutgers University. Kohler serves on the Advisory Board of the International Spy Museum and is an adjunct professor for the Johns Hopkins School of Advanced International Studies.

J. Michael McQuade

Member

J. Michael McQuade is the inaugural Director of the Program on Emerging Technology, Scientific Advancement, and Global Policy at the Harvard Kennedy School’s Belfer Center for Science and International Affairs. The Program tackles policy challenges that arise at the intersection of technology and geopolitics and trains the next generation of leaders to be fluent in both technology and policy domains.

He previously served as Special Advisor to the President of Carnegie Mellon University (CMU), where he provided strategic counsel on the university's research endeavors and advocated for the importance of science, technology, and innovation on both national and global scales. From 2019 to 2021, he held the role of Vice President for Research at CMU, collaborating closely with academic leaders and faculty to propel forward cutting-edge research initiatives across the institution.

Before his tenure at CMU, McQuade spent over a decade at United Technologies Corporation (UTC), serving as Senior Vice President for Science & Technology. In this capacity, he provided strategic oversight for research, engineering, and development endeavors across various business units, focusing on innovative solutions for the global aerospace and building systems industries. Prior to UTC, McQuade held senior research and general management roles at 3M, Imation, and Eastman Kodak.

McQuade’s academic background includes a Ph.D., M.S., and B.S. in physics from Carnegie Mellon University, with his doctoral research conducted at the Fermi National Accelerator Laboratory focusing on charm quark production in experimental high-energy physics.

McQuade has contributed his expertise serving government advisory boards, including the President's Council of Advisors on Science and Technology (PCAST), the Secretary of Energy Advisory Board, and the Defense Innovation Board.

Dewey Murdick

Member

Dewey Murdick is the Executive Director at Georgetown University's Center for Security and Emerging Technology, where he oversees daily operations and strategic initiatives. Previously, he served as Director of Science Analytics at the Chan Zuckerberg Initiative, Deputy Chief Scientist at the Department of Homeland Security, and Co-Director of the Anticipating Surprise Office/Program Manager at the Intelligence Advanced Research Projects Activity.

Murdick’s experience in the public, private, and academic sectors spans artificial intelligence policy, emerging technology analysis, data science, machine learning application development, technology foresight, and research and development portfolio oversight. He pioneered work in anticipatory intelligence via high-risk, high-payoff research programs supporting national security missions. His work has directly informed U.S. and international policymakers on critical technology issues.

Murdick’s contributions have been recognized with multiple honors, including the DHS Under Secretary's Award for Outstanding Collaboration, the ODNI Exceptional Achievement Award, and the Distinguished Analysis Award for Excellence in Intelligence Community Collaboration.

Murdick holds a Ph.D. in Engineering Physics from the University of Virginia and a B.S. in Physics from Andrews University.

Lisa M. Nichols

Member

Lisa Nichols is Executive Director, Research Security, at the University of Notre Dame where she has oversight for research and information security, export controls, and conflict of interest. She previously held roles at the University of Michigan, National Institutes of Health, National Science Foundation, the White House Office of Science and Technology Policy (OSTP) and the Council on Governmental Relations (COGR). At COGR she engaged with federal agencies on research security concerns on behalf of institutions of higher education and at OSTP, in the development of National Security Presidential Memorandum-33. She served as Principal Investigator on an NSF cooperative agreement to develop research security training for the U.S. research community and currently serves as PI on a SECURE (Safeguarding the Entire Community in the U.S. Research Environment) Center subaward to develop research security resources using a community centered approach. Nichols holds a Ph.D. in neuroscience from Purdue University and is a former American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow.

Steven Kendall

Staff Officer