



HARVARD
UNIVERSITY

SAFEGUARDING THE U.S. RESEARCH ENTERPRISE: Transparency, Integrity, and Reciprocity

A FBI ACADEMIC RESEARCH SECURITY CONFERENCE
hosted by Harvard University

NOVEMBER 1, 2022 | 9:00 AM – 2:00 PM ET

Spangler Center, Harvard University
117 Western Ave, Allston, MA 02163



DIRECTIONS

EVENT LOCATION:

Spangler Center

117 Western Ave, Allston, MA 02163

PARKING:

Soldiers Field Park Garage

Kresge Way, Allston, MA 02163

Walking Directions from the Soldiers Field Park Garage:

With your back to the Soldiers Field Parking Garage, walk straight along the sidewalk, with the surface parking lot on your left, until you reach the first set of stairs on your right. This will lead you up to the Spangler Center Courtyard, where you will enter the building through the GREEN door on your right. Once inside, immediately descend to the lower level (via staircase or elevator) to register.



AGENDA

8:00 am - 9:00 am

REGISTRATION, OPTIONAL BREAKFAST & NETWORKING

9:00 am - 9:15 am

OPENING REMARKS

- John H. Shaw, Vice Provost for Research, Harvard University
- Joseph R. Bonavolonta, Special Agent in Charge, FBI Boston

9:15 am - 10:15 am

PANEL ONE

In Focus: Cybersecurity

Research and education institutions have complex cybersecurity needs stemming from their use of scientific data and instruments, unique computational and storage resources, and complex collaborations that must be secured from intrusions that threaten to disrupt productivity, jeopardize privacy, and undermine national or economic security. Smart information security practices need to be tailored to these needs while continuing to support pathbreaking science. This panel brings together leaders in cybersecurity from government and higher education to discuss emerging cybersecurity threats, the federal response, and mitigation strategies to address key challenges.

Moderator: Klara Jelinkova, Harvard University

Panelists:

- Michael Corn, University of California San Diego
- Douglas Domin, Federal Bureau of Investigation
- Kim Milford, Research and Education Networks Information Sharing and Analysis Center
- Brandon Wales, Cybersecurity and Infrastructure Security Agency

10:15 am - 10:30 am

BREAK

AGENDA

10:30 am - 11:30 am

PANEL TWO

Federal Efforts to Protect America's Research Integrity

Federal funding agencies and Academia will discuss the “whole of government” approach to protect the American research enterprise. Dialogue will include efforts over the past several years to harmonize disclosure requirements across funding agencies, recent clarifications of longstanding guidance, and best practices.

Moderator: Wendy Streit, Council on Governmental Relations

Panelists:

- Rebecca Spyke Keiser, National Science Foundation
- Michael Lauer, National Institutes of Health
- Bindu Nair, Department of Defense

11:30 am - 12:45 pm

NETWORKING LUNCH

12:45 pm - 1:45 pm

PANEL THREE

NSPM-33 Implementation

University and federal government representatives will discuss current efforts and effective practices to enhance research security; how to continue to support productive cross-border collaborations; and what work remains to be done.

Moderator: Tobin Smith, Association of American Universities

Panelists:

- Kevin R. Gamache, The Texas A&M University System
- Rebecca Spyke Keiser, National Science Foundation
- Ara Tahmassian, Harvard University

1:45 pm - 2:00 pm

CLOSING COMMENTS

Alan M. Garber, Provost, Harvard University



JOHN SHAW

In his role as Vice Provost for Research, **John H. Shaw** works to support the research enterprise of the University, including its twelve schools and fifteen practicing hospitals. He helps to advance Harvard's research mission through coordination and collaboration across the University and beyond, enabling foundational and transformative research and developing core research support. He also helps the University navigate the federal regulatory landscape for research funding received by Harvard (totaling nearly \$1 billion annually) and associated compliance requirements.

John also serves as the Harry C. Dudley Professor of Structural and Economic Geology in the Earth and Planetary Sciences (EPS) Department, and Professor of Environmental Science and Engineering in the Paulson School of Engineering and Applied Science (SEAS). He is a structural geologist and applied geophysicist who investigates the nature of faulting in the earth's crust, with applications to earthquake science. His research is also focused on energy systems and carbon storage, and the environmental impacts of these activities. Shaw offers courses on these topics through the General Education Program, EPS, and SEAS.

Shaw served as chair of the EPS Department for thirteen years, supporting faculty, affiliated scientists, students, and staff. Activities in this role included strategic planning, faculty hiring and evaluation; oversight of student academic programs; fiscal management and planning; research compliance; fundraising; alumni relations; diversity and inclusion initiatives; and oversight of lab renovations and building operations. Shaw has served on several School- and University-level committees focused on professional conduct and research policy. He currently serves as the Chair of the Board of the Southern California Earthquake Center, an international research organization involving more than 90 institutions with federal and private sector funding sources. He is also co-founder of Seismix Reservoir Management, LLC, a firm that helps to assess environmental hazards of energy-related operations for companies, regulatory groups, and others.



JOSEPH BONAVOLONTA

Joseph R. Bonavolonta serves as the special agent in charge (SAC) of the FBI Boston Division which includes Maine, Massachusetts, New Hampshire, and Rhode Island. Previously, he served as deputy assistant director (DAD) for the FBI's Counterintelligence Division.

Mr. Bonavolonta has held a variety of leadership, operational, and investigative positions throughout his FBI career.

He entered on duty in May 1996 as an investigative specialist in the FBI's New York Field Office.

In August 2000, he received his first assignment as a special agent in the New York Field Office, where he spent many years investigating the Bonanno La Cosa Nostra (LCN) Family within the office's organized crime branch. His work led to the convictions of dozens of high-ranking members and associates of the Bonanno LCN Family. For his contributions to these investigations, Mr. Bonavolonta received the Attorney General's Director's Award for Superior Performance in 2005.

From 2006-2007, Mr. Bonavolonta served as the program manager in the Organized Crime Section at FBI Headquarters in Washington, D.C., where he was responsible for the coordination of organized crime cases throughout the country. He also directed an international organized crime initiative in coordination with the Italian National Police aimed at combating joint criminal operations between the American-based LCN Families and the Sicilian Mafia.

Mr. Bonavolonta was promoted to supervisory special agent of the corporate/securities fraud squad at the Newark Field Office in 2008. Mr. Bonavolonta directed the investigations of major economic crimes, to include corporate/securities fraud, intellectual property rights, Internet fraud, wire and mail fraud, and money laundering. Under Mr. Bonavolonta's supervision, his team generated some of the most significant economic crimes investigations in New Jersey.

JOSEPH BONAVALONTA, CONTINUED

In 2013, Mr. Bonavolonta received a promotion to assistant special agent in charge (ASAC) of the Boston Division where he oversaw the cyber and counterintelligence programs, as well as the resident agencies in Bedford/Portsmouth, New Hampshire, and Providence, Rhode Island.

Mr. Bonavolonta then served as the section chief for the FBI's employee development and selection program from March 2017 to March 2018. In this role, Mr. Bonavolonta managed the national oversight responsibilities for the supervisor development, transfer, senior leader selection, and senior executive service programs.

Mr. Bonavolonta was born in Montclair, New Jersey, and earned a Bachelor of Arts in political science/communications from Seton Hall University in South Orange, New Jersey.



KLARA JELINKOVA

Klara Jelinkova is Vice President and University Chief Information Officer at Harvard. She is responsible for information technology strategy, policies, and services that support the University's teaching, learning, and research mission, and business operations. Klara also leads Harvard University Information Technology (HUIT), Harvard's central IT provider that serves more than 50,000 educators, students, and staff.

Before joining Harvard, Klara held a variety of IT leadership positions in higher education. From 2016 to 2021, she was the Vice President for International Operations and IT and Chief Information Officer at Rice University, where she led in the creation and development of a new IT organization. She was responsible for strategic technology issues ranging from governance, policy, and resource allocation to protocol, organization, and operational issues connected to Rice's global footprint and interest. Under her leadership, Rice University received two CIO 100 Innovation Awards (2018, 2019).

From 2010 to 2015, Klara was Chief Information Officer and Senior Associate Vice President at the University of Chicago, where she oversaw the central IT organization providing common technology services across the University, its global centers, and biological sciences division (including UChicago Medicine). From 2006 to 2010, Klara served as the Assistant Vice President of Shared Services and Infrastructure and interim CISO at Duke University. Prior to arriving at Duke, Klara spent ten years at the University of Wisconsin-Madison.

Klara currently serves on the boards of Internet2 and several advisory boards of Fortune 500 companies. In 2021, Klara was selected as the Houston CIO of the Year. For her work related to identity and access management, she received the Internet2 Leadership Award in 2019.

Klara is an Adjunct Professor in Management at Rice University's Jones Graduate School of Business. She holds a Master's in Education from Boston University and a Bachelor's in Economics and Slavic Languages from the University of Wisconsin-Madison.



MICHAEL CORN

Michael Corn is the CISO of the University of California at San Diego where he manages the Office of Information Assurance, Trust, and Identity which includes Security as well as Identity and Access Management. His areas of interest include privacy, identity management, and cloud services. He has been an active speaker and author on security and privacy and has participated in numerous national initiatives.

He is the co-chair of the CMMC accreditation body's Academic Advisory Council, a member of the Internet2 NAOPag, a past co-chair of the Educause HEISC, and a member of the REN-ISAC steering committee.

Prior to joining UCSD he was the CISO & CPO and Deputy CIO of Brandeis University and was formally the CISO and Chief Privacy and Security Officer of the University of Illinois at Urbana-Champaign.

He is a graduate of the University of Colorado at Boulder and the University of Illinois at Urbana-Champaign.

His most recent publication on CMMC can be found at <https://er.educause.edu/articles/2021/12/cybersecurity-maturity-model-certification-2-0-what-it-means-for-higher-education>.



DOUGLAS DOMIN

Douglas Domin is a Supervisory Special Agent at the FBI's Boston Division. Since beginning his career as a Special Agent in 2002, he has fulfilled multiple roles at the FBI. Doug began as a cyber investigator in the Boston Division and trained to be certified as a technically-trained agent. Doug was offered an opportunity to bring those skillsets to the Bulger Fugitive Task Force and participated in Bulger's capture in 2011.

In 2012, he accepted a role at the FBI Cyber Division and was selected to manage the Cyber Action Team (CAT), a deployable contingent of highly-skilled FBI investigators. Prior to his return to the Boston Division, SSA Domin served two (2) years as an Assistant Legal Attaché at the U.S. Consulate in Toronto, Ontario. Since 2016, SSA Domin has worked on computer intrusion matters, focused exclusively on criminal actors.

He received his M.S. in Cybersecurity, Policy & Governance from Boston College and holds the CISSP and GRCA industry certifications.



KIM MILFORD

Kim Milford serves as Executive Director of the Research & Education Networks Information Sharing & Analysis Center (REN-ISAC), a higher education and research network cyber-threat information sharing alliance. As Executive Director, Ms. Milford works with her team in service to, and in coordination with, global research and education institutions, partners, and sponsors to provide timely cybersecurity news reports, alerts and advisories, and analysis of cybersecurity threats and mitigation solutions.

Since 2007, Ms. Milford has served in several roles leading strategic IT initiatives at Indiana University. As Chief Privacy Officer, she coordinated privacy-related efforts, chaired the Committee of Data Stewards, and directed the work of the University Information Policy Office and the university's IT incident response team. Prior to joining Indiana University, Ms. Milford worked as Information Security Officer at the University of Rochester. As Information Security Manager at University of Wisconsin-Madison from 1998 - 2005, she assisted in establishing the university's information security department and co-led in the development of an annual security conference. Ms. Milford provides cybersecurity expertise and presentations at national and regional conferences as well as seminars and consortia. She has taught courses on Internet security and authored/co-authored many articles on the subject. Ms. Milford has a B.S. in Accounting from Saint Louis University in St. Louis, Missouri and a J.D. from John Marshall Law School in Chicago, Illinois.



BRANDON WALES

Brandon Wales is the Executive Director for the Department of Homeland Security (DHS), Cybersecurity and Infrastructure Security Agency (CISA) and is responsible for leading long-term strategy development, managing CISA-wide policy initiatives and ensuring effective operational collaboration across the Agency.

On February 20, 2022, the Secretary of Homeland Security appointed Mr. Wales as the Senior Response Official for domestic preparedness and response to the current Russia-Ukraine crisis after President Biden designated DHS as the Lead Federal Agency on Domestic preparedness and response.

From November 17, 2020 through July 12, 2021, he was designated as the Acting Director of CISA. In this capacity, he oversaw CISA's efforts to defend civilian networks, manage systemic risk to national critical functions, and work with stakeholders to raise the security baseline of the Nation's cyber and physical infrastructure.

He has previously served as the Senior Counselor to the Secretary for Cyber and Resilience, the Acting Chief of Staff of the Department and as the Director of the DHS Office of Cyber and Infrastructure Analysis (OCIA), which provided integrated analysis of cyber and physical risks to the Nation's critical infrastructure. When the Department began working on the first Quadrennial Homeland Security Review in 2009, Mr. Wales was asked to lead the review of the counterterrorism and cyber security mission areas.

Mr. Wales' contributions have been recognized with an Exceptional Performance Award from the Director of National Intelligence, a DHS Secretary's Award for Excellence, and two DHS Distinguished Service Medals, the Department's highest civilian award.



WENDY STREITZ

Wendy Streit is the President of the Council on Governmental Relations (COGR), a higher education association of leading research universities, affiliated medical centers, and research institutions. COGR concerns itself with the impact of federal regulations, policies, and practices on the performance of research conducted at its member institutions. COGR members account for over 95% of all federal research awards made to the higher education community. As the national authorities on the financial and regulatory infrastructure associated with the conduct of federally funded research and corresponding compliance requirements, COGR is committed to fostering productive relationships between the research community and federal policymakers, while advocating for innovation and change that avoid unnecessary regulatory burden.

Prior to joining COGR, Ms. Streit was the Executive Director of Research Policy Analysis and Coordination (RPAC) in the University of California's systemwide office, a unit responsible for the full spectrum of policy matters related to the conduct and administration of research in the UC system. For the early part of her tenure at UC, her primary focus was on intellectual property related policies and practices.

Before joining the University of California, Ms. Streit was Associate Director of Auburn University's Intellectual Property and Technology Transfer office, after having spent many years in industry as an electrical engineer. She earned her Bachelor's in Engineering from Harvey Mudd College, and MS in Electrical Engineering from Johns Hopkins University.



REBECCA SPYKE KEISER

Dr. Rebecca Spyke Keiser is the Chief of Research Security Strategy and Policy (CRSSP) at the National Science Foundation (NSF).

Keiser is the first CRSSP, a position established in March 2020 to ensure the security of federally funded research while maintaining open international collaboration. In this role, Keiser provides the NSF director with policy advice on all aspects of research security strategy. She also leads NSF's efforts to develop and implement efforts to improve research security and the agency's coordination with other federal agencies and the White House.

Until March 2020, Keiser was the head of the Office of International Science & Engineering (OISE) at NSF. Keiser had served as head of OISE since coming to NSF in 2015. The office promotes an integrated, international strategy and manages internally focused programs that are innovative, catalytic and responsive to a broad range of NSF and national interests.

Prior to NSF, she was a special advisor to the National Aeronautics and Space Administration (NASA) administrator and an executive-in-residence at American University. She held several positions with NASA, including associate deputy administrator for strategy and policy, associate deputy administrator for policy integration, and executive officer to the deputy administrator.

Keiser also served as assistant to the director for international relations at the White House Office of Science and Technology Policy, where she provided policy guidance to the president's science advisor. Her experience covers science and technology policy, agreements and other cooperative efforts. She is a board member of Women in Aerospace and a member of the American Academy for the Advancement of Science. She has a bachelor's degree in Japanese studies from Wellesley College; a master's degree in politics of the world economy from the London School of Economics; and a doctorate in international studies from the University of South Carolina. She speaks Japanese and Spanish.



MICHAEL LAUER

Michael Lauer, M.D., is the Deputy Director for Extramural Research at the National Institutes of Health (NIH), where he serves as the principal scientific leader and advisor to the Director of the NIH on all matters relating to the substance, quality, and effectiveness of the NIH extramural research program and administration.

He received education and training at Rensselaer Polytechnic Institute, Albany Medical College, Harvard Medical School, Harvard School of Public Health, and the NHLBI's Framingham Heart Study. He spent 14 years at Cleveland Clinic as Professor of Medicine, Epidemiology, and Biostatistics.

During his tenure at the Clinic, he led a federally funded internationally renowned clinical epidemiology program that applied big data from large-scale electronic health platforms to questions regarding the diagnosis and management of cardiovascular disease. From 2007 to 2015 he served as a Division Director at the National Heart, Lung, and Blood Institute (NHLBI), where he promoted efforts to leverage big data infrastructure to enable high-efficiency population and clinical research and efforts to adopt a research funding culture that reflected data-driven policy.

He has received numerous awards including the NIH Equal Employment Opportunity Award of the Year and the Arthur S. Flemming Award for Exceptional Federal Service in recognition of his efforts to grow a culture of learning and accountability.



BINDU NAIR

Dr. Bindu Nair is the Director for Basic Research within the Office of the Secretary of Defense (OSD). In this role, she is responsible for oversight and coordination of the Department's \$2.5 billion investment in basic science.

She previously served as the Deputy Director of OSD's Human Performance, Training and Biosystems Directorate. Prior to OSD, Dr. Nair worked for the Department of the Army with oversight responsibilities over the science and technology program in power and energy. She has worked in the DoD laboratory system at Natick Soldier Research, Development and Engineering Center as well as in private industry at Foster Miller.

Her research expertise is in the field of Material Science and Engineering including nanomaterials, polymers, and organic electronic materials. She has published primarily in membrane and materials development fields and holds patents in fuel cell technologies.

Dr. Nair holds a B.Sc. from the University of Florida and a Ph.D. from the Massachusetts Institute of Technology in Materials Science and Engineering.



TOBIN SMITH

Tobin (Toby) Smith oversees matters related to science and innovation policy, broader impacts of science, and AAU's international activities. He shares responsibility for matters concerning research costs and other regulatory and compliance issues, including facilities and administrative costs, export controls, scientific openness and security, public access to research results, and technology transfer. He also staffs the AAU Senior Research Officers (SRO) constituent group.

Toby previously worked as a federal relations representative for the University of Michigan and for MIT. He began his career on Capitol Hill as a legislative assistant to Congressman Bob Traxler (D-MI).

Toby serves on the Advisory Board of the International Network for Advancing and Evaluating the Societal Impact of Science (AESIS); is a member of the Council of Experts for the NSF sponsored Center for Advancing Research Impact in Society (ARIS); and is co-chair of Engaging Scientists in Engineers in Policy (ESEP), an ad hoc alliance of organizations focused on helping scientists and engineers to effectively engage in the policy making process at all levels of government.

Toby writes and speaks widely on issues of science policy. He is the co-author of a 2008 book on national science policy titled, *Beyond Sputnik - U.S. Science Policy in the 21st Century*. He is active in AAAS where he is honorific fellow and officer of the Societal Impacts of Science and Engineering section (Section X). He also serves as a member of the AAAS Committee on Science, Engineering and Public Policy (COSEPP).

Toby holds a Master's degree in Legislative Affairs from George Washington University, and a Bachelor's degree in General Studies (BGS) from the University of Michigan.



KEVIN GAMACHE

Dr. Kevin Gamache is Associate Vice Chancellor and Chief Research Security Officer for The Texas A&M University System. He is responsible for ensuring A&M System member universities comply with U.S. Government requirements for protecting sensitive federal information. He established and led the Academic Security & Counter Exploitation Program, an association of U.S. universities established to help heighten security awareness in academia. His leadership on behalf of the academic security community resulted in the A&M System receiving the James S. Cogswell Award from the Defense Security Service (DSS) in 2015 & 2020. In 2017 and 2019, the A&M System received the Defense Counterintelligence & Security Agency's Award for Excellence in Counterintelligence.

He received a Doctor of Philosophy degree from Texas A&M University and a Master of Science Degree from the Industrial College of the Armed Forces. He retired from the United States Air Force in 2005 with the rank of Colonel after 24 years of service. He teaches graduate courses at the George Bush School of Government and Public Service at Texas A&M University.



ARA TAHMASSIAN

Ara Tahmassian, Ph.D., is Harvard University's Chief Research Compliance Officer. In this role he is broadly responsible for the overall effort to manage potential risks at the University by integrating and coordinating the significant compliance requirements across the University. He is responsible for the oversight of the review, development, and implementation of policies related to research compliance activities across the University and management of university-wide Institutional Committees. He is also the Project Director for a Department of State Funded program for "Building University Capacity in Responsible Science for Broader Middle East and North Africa."

Prior to Harvard University, Dr. Tahmassian was the Associate Vice President for Research Compliance at Boston University and Boston Medical Center, where he also served as the Principal Investigator for the core BSL-3 select agent laboratory and as one of the Associate Directors of the National Emerging Infectious Diseases Laboratories (NEIDL) at the BU Medical Campus.

He also served as the Associate Vice Chancellor for Research at University of California San Francisco in until his retirement in October 2006.

He has extensive experience in research compliance topics including Institutional Review Board; Environmental Health and Safety; Institutional Biosafety, Radiation Safety and Laboratory Safety; Dual User Research of Concern (DURC) oversight; Research Occupational Health Program; Animal Care and Use Programs; Financial Conflict of Interest; Responsible Conduct of Research and Sponsored Research Programs.

Dr. Tahmassian holds a B.Sc. in nuclear engineering and a Ph.D. in radiobiology from Queen Mary College, London University, and is a Diplomat of the American Board of Sciences in Nuclear Medicine. He serves on a number of national and international scientific and professional organizations.



ALAN GARBER

Provost Alan M. Garber serves as Harvard University's chief academic officer. He is also the Mallinckrodt Professor of Health Care Policy at Harvard Medical School, a Professor of Economics in the Harvard Faculty of Arts and Sciences, Professor of Public Policy in the Harvard Kennedy School of Government, and Professor in the Department of Health Policy and Management in the Harvard T.H. Chan School of Public Health. An economist and physician, he studies methods for improving health care productivity and health care financing.

As Provost, Dr. Garber oversees academic activities throughout the university, with direct responsibility for inter-school initiatives, faculty development, research policy, international affairs, and advances in learning. The Harvard Art Museums, the Harvard Library, Harvard University Health Services, HarvardX, the American Repertory Theater, and the Arnold Arboretum are among the organizations reporting to the Provost.

Before becoming Provost at Harvard in 2011, Dr. Garber was the Henry J. Kaiser Jr. Professor and a Professor of Medicine, as well as a Professor of Economics, Health Research and Policy, and Economics in the Graduate School of Business (by courtesy) at Stanford University. At Stanford, he founded and directed the Center for Health Policy and the Center for Primary Care and Outcomes Research, and served as a Staff Physician at the Department of Veterans Affairs Palo Alto Health Care System.

Dr. Garber is an Elected Member of the Association of American Physicians, the National Academy of Medicine, and the American Academy of Arts and Sciences. He is also an Elected Fellow of the American Association for the Advancement of Science, the American College of Physicians and the Royal College of Physicians. A summa cum laude graduate of Harvard College, Dr. Garber received a PhD in Economics from Harvard and an MD with research honors from Stanford.